JVC

SERVICE MANUAL

VHS & HDD & DVD VIDEO RECORDER

DR-MX10SE, DR-MX10SEF, DR-MX10SEK

Area Suffix

E ------- Continental Europe
Northern Europe
EF ---------- France
EK ---------- U.K.

SHOWVIEW™ (E model)

SHOWVIEW® (EF model)

VIDEO Plus+® (EK model)

DR-MX10SE, DR-MX10SEF, DR-MX10SEK [D5VC21]

*Since the whole mechanism assembly unit is replaced, the DVD recordermechanism of this unit need not be adjusted.
*For disassembling and assembling of VHS MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700 (MECHANISM ASSEMBLY).

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-8
3 DISASSEMBLY 1-11
4 ADJUSTMENT 1-14
5 TROUBLESHOOTING 1-18

COPYRIGHT © 2006 VICTOR COMPANY OF JAPAN, LIMITED

No.YD084
2006/1

SPECIFICATION

	DR-MX10SEK	DR-MX10SE	DR-MX10SEF
GENERAL			
Power requirement	AC 220 V - 240 V, 50 Hz / 60 Hz		
Power consumption			
Power on	45 W		
Power off	6.7 W		
Temperature			
Operating	5°C to 35°C		
Storage	-20°C to 60°C		
Operating position	Horizontal only		
Dimensions (W × H × D)	435 mm × 96 mm × 384 mm		
Weight	6.9 kg		
VIDEO/AUDIO (DVD Deck)			
Recordable disc	DVD-RAM 12 cm (4.7 GB/9.4 GB*1), DVD-RAM 8 cm (1.4 GB/2.8 GB*2), DVD-R 12 cm (4.7 GB) DVD-R 8 cm (1.4 GB), DVD-RW 12 cm (4.7 GB), DVD-RW 8 cm (1.4 GB) *1 9.4 GB double-sided discs *2 2.8 GB double-sided discs		
Recording format	DVD-RAM : DVD Video Recording format DVD-R : DVD Video format, DVD Video Recording format DVD-RW : DVD Video format, DVD Video Recording format		
Recording time	Maximum 8 hours (with 4.7 GB disc) (XP): Approx. 1 hour, (SP): Approx. 2 hours, (LP): Approx. 4 hours (EP): Approx. 6 hours, (FR): Approx. 1 hour - 8 hours		
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)		
Video recording compression system	MPEG2 (CBR/VBR)		
VIDEO/AUDIO (HDD Deck)			
Capacity	160 GB		
Recording time	(DV) : Approx. 11 hours, (XP) : Approx. 34 hours, (SP) : Approx. 69 hours (LP) : Approx. 138 hours, (EP) : Approx. 209 hours, (FR480) : Approx. 300 hours		
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)		
Video recording compression system	MPEG2 (VBR)		
VIDEO/AUDIO (VHS Deck)			
Signal system	PAL colour signal and CCIR monochrome signal, 625 lines / 50 fields		
Recording system	DA4 (Double Azimuth) head helical scan system		
Format	VHS PAL standard		
Maximum recording time			
(SP)	240 min. with E-240 video cassette		
(LP)	480 min. with E-240 video cassette		
Signal-to-noise ratio	45 dB		
Horizontal resolution	230 lines		
Frequency range	70 Hz to 10,000 Hz (Normal audio) 20 Hz to 20,000 Hz (Hi-Fi audio)		
INPUT/OUTPUT			
21-pin SCART connectors	IN / OUT × 1, IN / DECODER × 1		
S-video input	Y: 1.0 Vp-p, 75 Ω, C: 0.3 Vp-p, 75 Ω		
Video input	1.0 Vp-p, 75 Ω (pin jack)		
Audio input	2 Vrms (pin jack)		
i.Link	4-pin for DV Input/Output		
Component video output	Y: 1.0 Vp-p, 75 Ω, Pb/Pr: 0.7 Vp-p, 75 Ω Corresponding to copy protection		
Digital audio output	Coaxial Corresponding to Dolby Digital and DTS Digital Surround, Bit stream Selectable in digital audio output setting menu		
G-LINK	Ø3.5 mm jack		
TUNER/TIMER			
Tuning system	Frequency synthesized tuner		
Signal system	PAL colour signal, 625 lines/50 fields	PAL/SECAM colour signal, 625 lines/50 field	
TV channel storage capacity	99 positions (+AUX position)		
Channel coverage (PAL B/G)	VHF : 44.5 MHz - 143 MHz/143 MHz - 470 MHz UHF : 470 MHz - 862 MHz	VHF : 47 MHz - 89 MHz/104 MHz - 300 MHz/302 MHz - 470 MHz UHF : 470 MHz - 862 MHz	VHF(LOW) : 47MHz-89MHz(E2-E4,X,Y,Z) VHF(HIGH) : 104MHz-300MHz(E5 - E12, S1-S20, M1 - M10, U1 - U10) Hyper: 302MHz - 470MHz (S21-S41) UHF: 470MHz - 862MHz (E21 - E69)
Channel coverage(SECAM-L)	-		VHF(LOW) : 49MHz - 65MHz (2-4) VHF(HIGH) : 104MHz-300 MHz(5-10,CATV) Hyper : 300MHz - 470MHz (CATV) UHF : 470MHz - 862MHz (21 - 69)
Clock reference	Quartz		
Memory backup time	Approx. 10 minutes		

- Specifications shown are for SP mode unless otherwise specified.
- E.& O.E. Design and specifications subject to change without notice.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS DIGITAL OUT" are trademarks of Digital Theater Systems, Inc.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- GUIDE Plus+, SHOWVIEW,VIDEO Plus+, G-LINK are (1) registered trademarks or trademarks of, (2) manufactured under license from and (3) subject of various international patents and patent applications owned by, or licensed to, Gemstar-TV Guide International, Inc. and/or its related affiliates.
- GEMSTAR-TV GUIDE INTERNATIONAL, INC. AND/OR ITS RELATED AFFILIATES ARE NOT IN ANY WAY LIABLE FOR THE ACCURACY OF THE PROGRAM SCHEDULE INFORMATION PROVIDED BY THE GUIDE PLUS+ SYSTEM. IN NO EVENT SHALL GEMSTAR-TV GUIDE INTERNATIONAL, INC. AND /OR ITS RELATED AFFILIATES BE LIABLE FOR ANY AMOUNTS REPRESENTING LOSS OF PROFITS, LOSS OF BUSINESS, OR INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PROVISION OR USE OF ANY INFORMATION, EQUIPMENT, OR SERVICES RELATING TO THE GUIDE PLUS+ SYSTEM.
- i-LINK is a trademark of Sony Corp.

SECTION 1
PRECAUTION

1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold.However,in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

1.1.1 Precautions during Servicing

(1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product.When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

(2) Parts identified by the ⚠symbol and shaded ( ) parts are critical for safety.
Replace only with specified part numbers.

NOTE :

Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

(3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

(4) Use specified internal wiring. Note especially:
- Wires covered with PVC tubing
- Double insulated wires
- High voltage leads

(5) Use specified insulating materials for hazardous live parts. Note especially:
- Insulation Tape
- PVC tubing
- Spacers
- Insulation sheets for transistors
- Barrier

(6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

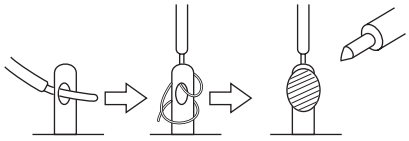


Fig.1-1-1

(7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

(8) Check that replaced wires do not contact sharp edged or pointed parts.

(9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

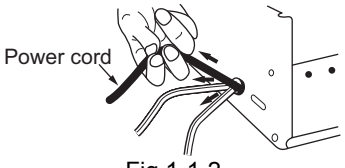


Fig.1-1-2

(10) Also check areas surrounding repaired locations.

(11) Products using cathode ray tubes (CRTs)In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

(12) Crimp type wire connectorIn such cases as when replacing the power transformer in sets where the connections between the power cord and power trans former primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**

a) Remove the old connector by cutting the wires at a point close to the connector.Important : Do not reuse a connector (discard it).

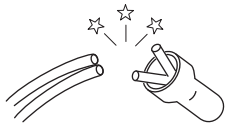


Fig.1-1-3

b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

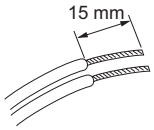


Fig.1-1-4

c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

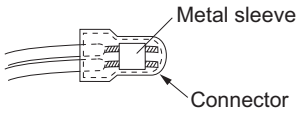


Fig.1-1-5

d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

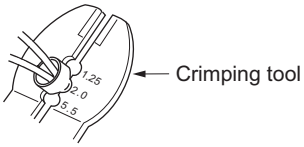


Fig.1-1-6

e) Check the four points noted in Fig.1-1-7.

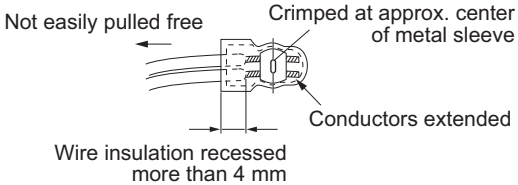

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.1-1-7

1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).See table 1 below.

(2) Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.

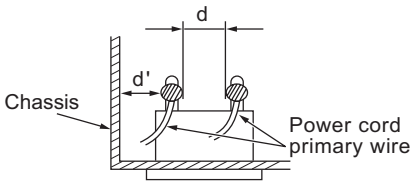


Fig.1-1-8

(4) Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.

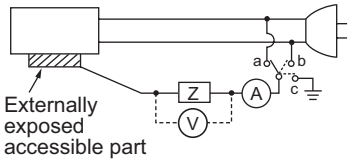
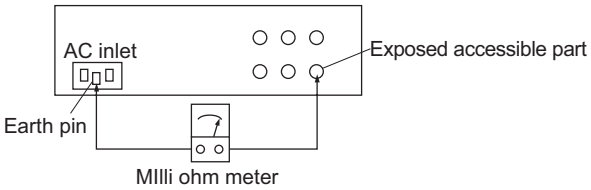


Fig.1-1-9

(5) Grounding (Class 1 model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig.1-1-10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦R≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Fig.1-1-11

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Fig.1-1-12

NOTE :
These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

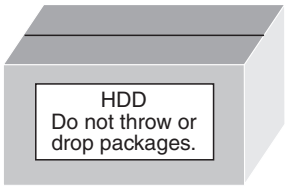
1.2 Hard Disk Drive (HDD) Handling Precautions

The HDD is a precision device for use in reading and writing a large amount of data on or from a disk rotating at a high speed. If it is not handled carefully, either abnormal operation may result or it may not be possible to read data. The HDD is sensitive to the following items and special care is required in safeguarding against them when handling an HDD. Also take care in handling a set incorporating an HDD.

(1) Vibrations and impacts
(2) Static electricity
(3) Rough handling

1.2.1 Handling in transport, etc.

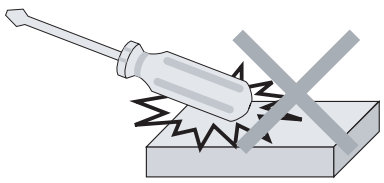
- Be sure to place the HDD in the manufacturer's specified package carton before transport.
- When receiving a package containing an HDD, check that the package carton is not damaged (such as having holes in the carton, crushed corners, etc.).
- Do not impact the packaging carton when loading or unloading it.
- It is not permitted to use the inner package carton only for transporting an HDD.
- Do not stack package cartons one upon another.



Be sure to package and transport the HDDs correctly.

1.2.2 Handling an HDD in the stand-alone status

- When handling an HDD on a hard workbench, place an antistatic mat (rubber sheet) or similar object on the hard surface (to prevent any impacts occurring between the HDD and bench).
- Do not stack the HDDs one upon another.
- Do not knock an HDD with a hard object (such as a screwdriver).
- Do not place an HDD on its side panel without using a support (do not place an HDD in an unstable position).



1.2.3 Handling the installation of an HDD

- Place antistatic mats or similar sheets on all of the surfaces on which work is conducted or when the HDD is transported.
- Do not permit the HDD to knock against the set's brackets.
- When screwing the brackets, be careful not to knock the HDD. When using a power screwdriver, use a low-shock model and arrange the tightening torque properly.
- When mounting an HDD in a main body, take care not to apply excessive force to the brackets.

1.3 Preventing static electricity

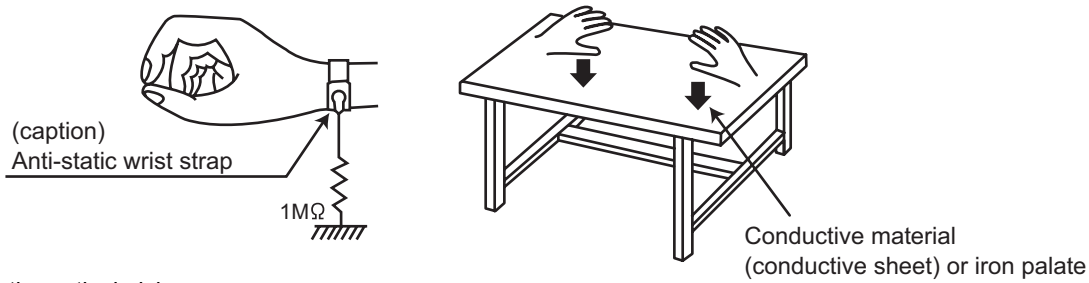
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.3.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players or recorder.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

1.4 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.5 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSUREBTO BEAM.	**VARNING :** Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymätttömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABEL

CAUTION	CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.
ADVARSEL	KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSAETTELSE FOR STRÅLING.
ADVARSEL	KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPENS. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING	KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO!	KURSSI 3B NÄKYVÄ JA NÄKYMÄTÖN AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEN.

On mechaism assembly

The photograph might be different from the actual thing.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 Different table of features

The following table indicates main different points between models DR-MX10SEK, DR-MX10SE and DR-MX10SEF.

ITEM	DR-MX10SEK	DR-MX10SE	DR-MX10SEF
POWER PLUG	3PIN	CEE	←
VHS	PAL VHS	PAL/MESECAM VHS	PAL/MESECAM/SECAM VHS
BROADCASTING STANDARD	I	B/G, D/K	L, L', B/G
STEREO DECODER	NICAM	NICAM/A2	NICAM/A2
VCR PLUS+	-	-	-
EPG	GUIDE PLUS+	←	←
VPS/PDC	X/O	O/O	X/O

Note:
Mark ← as same as left.

2.2 Service position

This unit has been designed so that the Mechanism and Main board assemblies can be removed together from the bottom chassis. Before diagnosing or servicing the circuit boards, take out the major parts from the bottom chassis.

2.2.1 How to set the "Service position"

(1) Refer to the disassembly procedure and perform the disassembly of the major parts before removing the Mechanism assembly.
(2) Remove the screws that fix the Mechanism, Main board assembly to the bottom chassis. If any other screws are used to fix the boards, remove them also.
(3) Remove the combined Mechanism, HDD, DVD unit, switching regulator, digital, junction and Main board assemblies.
(4) If any other major parts are used, remove them also.
(5) Connect the wires and connectors of the major parts that have been removed in steps (1) to (4). (Refer to Fig. 2-2a.)
(6) Place the combined Mechanism, Main board and other board assemblies upside down.
(7) Insert the power cord plug into the power outlet and then proceed with the diagnostics and servicing of the board assembly.

Notes:

- **Before inserting the power cord plug into the power outlet, make sure that none of the electrical parts are able to short-circuit between the workbench and the board assembly.**
- **For the disassembly procedure of the major parts and details of the precautions to be taken, see "Removing the major parts".**
- **If there are wire connections from the Main board and Mechanism assemblies to the other major parts, be sure to remove them (including wires connected to the major parts) first before performing step (2).**
- **When carrying out diagnosis and repair of the Main board assembly in the "Service position", be sure to ground both the Main board and Mechanism assemblies. If they are improperly grounded, there may be noise on the playback picture or FDP counter display may move even when the mechanism is kept in an inoperative status.**
- **In order to diagnose the playback or recording of the cassette tape, set the Mechanism assembly to the required mode before placing it upside down. If the mechanism mode is changed (including ejection) while it is in an upside down position the tape inside may be damaged.**
- **For some models, the mechanism and board assemblies are attached by connectors only. When carrying out a diagnosis or repair of the boards in the "Service position", make sure that the connectors are not disconnected.**

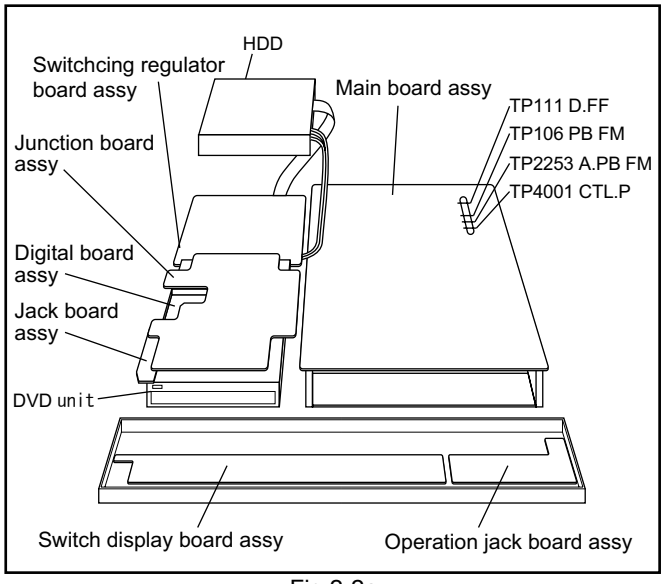


Fig.2-2a

2.3 Jig RCU mode

This unit uses the following two modes for receiving remote control codes.

(1) User RCU mode:Ordinary mode for use by the user.

(2) Jig RCU mode: Mode for use in production and servicing.

When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). As both of the above two modes are stored in the EEPROM, it is required to set the unit back to the User RCU mode each time that an adjustment is made or to check that the necessary operations have been completed.These modes can be set by the operations described below.

Note:

- **When the unit is set to Jig RCU mode and when the unit is under Jig RCU mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since the unit is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."**
- **Confirm the RCU mode when exchanged parts. Since some SERVICE PARTS sets the unit to the Jig RCU mode as initial setting. Therefore please set the unit to the user RCU mode after replacing the EEPROM.**

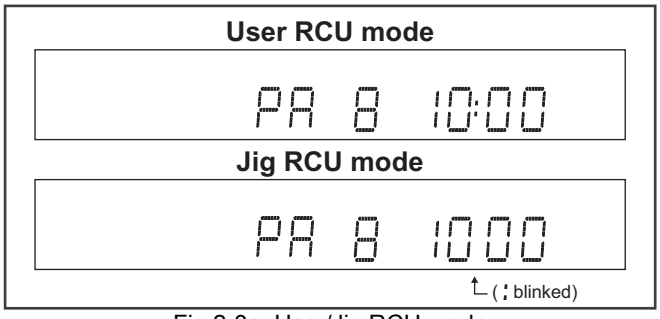


Fig.2-3a User/Jig RCU mode

2.3.1 Changing Remote Control Code

(1) Slide the TV/CABLE/SAT/DVD switch to DVD.

(2) Press the numeric button "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then,press the "ENTER" button, and then release the "SET UP" button.

(3) Press the "POWER" button on the unit to turn off the unit.

(4) Press the "PLAY" button on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.

(5) Press the "STOP" button on the remote control to change the unit's code. When FDP indicator displays "DVD1," it means that the Remote Control Code has been changed to "1."

2.3.2 Setting the Jig RCU mode

(1) Turn on the power.

(2) Press the "VHS/HDD/DVD SELECT" button repeatedly on the unit so that the VHS lamp lights up on the unit.

(3) Press the following remocon keys continuously within 2 seconds " SET UP " → " 2 " → " 8 " → " ENTER ".
When the unit is set to the Jig RCU mode, the symbols (" : ") in the time display of the FDP are blinked.
(Refer to Fig.2-3a User/Jig RCU mode)

2.3.3 Setting the User RCU mode

(1) Turn off the power.

(2) Press the "REC" and "PAUSE" buttons of the VCR simultaneously. Alternatively, transmit the code "43-9D" from the Jig RCU.

2.4 Mechanism service mode

This model has a unique function to enter the mechanism into every operation mode without loading of any cassette tape. This function is called the "Mechanism service mode".

2.4.1 How to set the "Mechanism service mode"

(1) Set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received)

(2) Transmit the code "43-E5" from the Jig RCU.

(3) Release the lug of the Cassette holder and then slide the Cassette holder toward the direction where the Cassette holder is loaded by manually.

(4) The cassette holder lowers and, when the loading has completed, the mechanism enters the desired mode.
When the unit is set to the Mechanism service mode, the symbols ("TIMER") in the FDP (LED) are blinked.

2.4.2 How to exit from the "Mechanism service mode"

(1) Unplug the power cord plug from the power outlet.

2.5 Maintenance and inspection

2.5.1 Cleaning

Regular cleaning of the transport system parts is desirable but practically impossible. So make it a rule to carry out cleaning of the tape transport system whenever the machine is serviced.
When the video head, tape guide and/or brush get soiled, the playback picture may appear inferior or at worst disappear, resulting in possible tape damage.

Note:

- **Absolutely avoid sweeping the upper drum vertically as this will cause damage to the video head.**

(1) When cleaning the upper drum (especially the video head), soak a piece of closely woven cloth with alcohol and while holding the cloth onto the upper drum by the fingers, turn the upper drum counterclockwise.

(2) To clean the parts of the tape transport system other than the upper drum, use a piece of closely woven cloth or a cotton swab soaked with alcohol.

(3) After cleaning, make sure that the cleaned parts are completely dry before using the cassette tape.

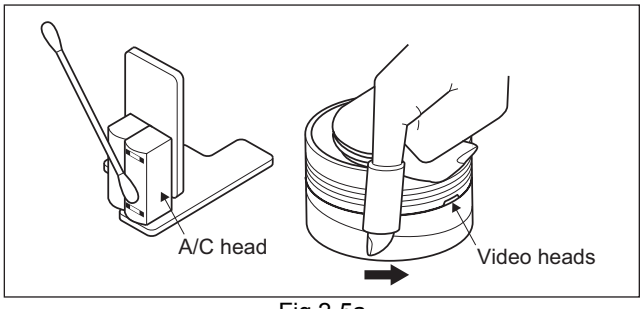


Fig.2-5a

2.5.2 Lubrication

With no need for periodical lubrication, you have only to lubricate new parts after replacement. If any oil or grease on contact parts is soiled, wipe it off and newly lubricate the parts.

Note:

- **See the "mechanism assembly" diagram of the "parts list" for the lubricating or greasing spots, and for the types of oil or grease to be used.**

2.5.3 Suggested servicing schedule for main components

The following table indicates the suggested period for such service measures as cleaning, lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions. However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary. Also note that rubber parts may deform in time, even if the set is not used.

System	Parts name	Operation hours	
		1000H	2000H
Tape transport	Drum assembly	C,X	X
	A/C head	C,X	C,X
	Pinch roller arm assembly	C	C
	Full erase head	C	C
	Tension arm assembly	C	C
	Capstan motor (Shaft)	C	C
	Guide arm assembly	C	C
Drive	Capstan motor		X
	Capstan brake assembly		X
	Main brake assembly		X
	Belt (Capstan)	X	X
	Loading motor		X
	Clutch unit		X
	Worm gear		X
	Control plate		X
Other	Rotary encoder		X

C : Cleaning
X : Inspection or Replacement if necessary

SECTION 3
DISASSEMBLY

3.1 Removing the major parts

3.1.1 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)

: The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN101	⇔	Digital	CN761	40
WR2b	Main	CN103	⇔	Digital	CN762	10

■ **Destination of connectors**

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN7112	⇔	Operation/jack	CN7201	9
WR2b	Main	CN3102	⇔	Switch/display	CN7001	15
WR3a	Main	CN2001	⇔	A/C head		6
WR3b	Drum assembly		⇔	Main	CN1	7
WR4a	DVD unit		⇔	Digital	CN2201	40
WR4b	DVD unit		↔	SW. REG.	CN5303	4
WR5a	HDD		⇔	Digital	CN2101	40
CN7108 (CN1101)	Junction	CN7108	⬌	Digital	CN1101	15
CN7109 (CN1102)	Junction	CN7109	⬌	Digital	CN1102	15
CN4104 (CN1801)	Jack	CN4104	⬌	Digital	CN1801	9
WR7a	Junction	CN7104	⇔	Video switch	CN501	4
WR7b	Main	CN3103	⬌	Junction	CN7102	19
WR7c	Main	CN2601	⬌	Junction	CN8001	11
WR7d	Junction	CN7107	⇔	Main	CN7111	13
WR7e	SW. REG.	CN5304	⬌	Junction	CN5501	19
WR7f	Digital	CN1103	⇔	Junction	CN7110	19
WR8a	SW. REG.	CN5301	⇔	Main	CN5311	15
WR8b	SW. REG.	CN5302	↔	Fan motor		2
WR8c	Junction	CN5504	↔	HDD		4
WR8d	SW. REG.	CN5303	↔	DVD unit		4

3.1.2 How to read the procedure table

This table shows the steps for disassembly of the externally furnished parts and board assemblies. Reverse these steps when re-assembling them.

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a),	<Note 1a>
	Bracket		2(S1c)	

(1) (2) (3) (4) (5)

(1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
These numbers are also used as the identification (location) No. of parts Figures.

(2) Part name to be removed or installed.

(3) Fig. No. showing procedure or part location.

(4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).

Note:

- **The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.**

(5) Adjustment information for installation

3.1.3 Disassembly procedure

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1e	8(S1a)	
[2]	Front panel assembly (Operation/jack board assembly) (Switch/display board assembly)	3-1a 3-1d 3-1e	3(L2a),5(L2b) CN7112(WR2a) CN3102(WR2b)	<Note2a> <Note2b>
[3]	Mechanism assembly (Drum assembly)	3-1b 3-1c 3-1d 3-1e	CN2001(WR3a) 3(S3a),(S3b) CN1(WR3b) (S3c),(S3d),(S3e)	<Note2a> <Note3a> <Note3b>
[4]	DVD unit (Bracket)	3-1e 3-1d	4(S4a),4(S4b) (WR4a),(WR4b)	<Note2a>
[5]	Digital board assembly and Jack board assembly	3-1d 3-1e	4(S5a),CN2101(WR5a)(S5b) CN7108(CN1101),CN7109(CN1102)	<Note2a>
[7]	Junction board assembly	3-1d 3-1e	(S7a),CN7104(WR7a), CN3103(WR7b),CN2601 (WR7c),CN7104(WR7d), CN5304(WR7e),CN5504(WR8c)	<Note2a>
[8]	Switching Regulator board assembly	3-1d 3-1e	4(S8a) CN5301(WR8a), CN5302(WR8b), CN5303(WR8c), CN5304(WR7e)	<Note2a>
[9]	Rear cover	3-1e	(S9a),7(S9b),2(S9c),3(L9a)	
[10]	HDD(Bracket, sheet)	3-1e	4(S10a),4(S10b)	
[11]	Main board assembly	3-1e	3(S11a)	

< Note 2a >

- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.

< Note 2b >

- When reattaching the Front panel assembly, make sure that the door opener of the Side frame (R) is lowered in position prior to the reinstallation.
- When reattaching the Front panel assembly, pay careful attention to the switch lever of the Front panel assembly not to make it touch the switch knob of the Main board assembly from the side.
- When reattaching the Front panel assembly, lift the Cassette door slightly.

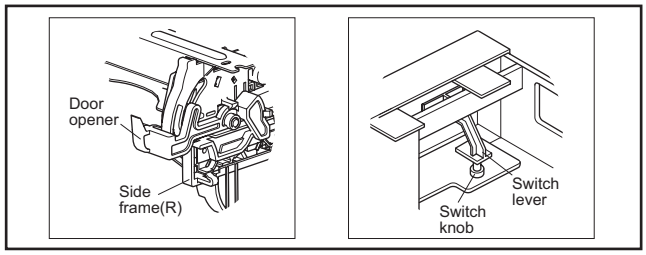


Fig.3-1a

< Note 3a >

- When reattaching the Mechanism assembly, secure the screws (S3a to S3b) in the order of 1,2,3.

< Note 3b >

- When reattaching the Mechanism assembly, be sure to align the phase of the Rotary encoder on the Main board assembly.
- When reattaching the Mechanism assembly, set the “Mechanism assembling mode”. [See “MECHANISM ASSEMBLY SERVICE MANUAL (No. 86700)”.]

- When reattaching the Mechanism assembly to the Main board assembly, take care not to damage the sensors and switch on the Main board assembly.

< Note 3c >

- When reattaching the Drum assembly, secure the screws (S3c to S3e) in the order of c, d, e.

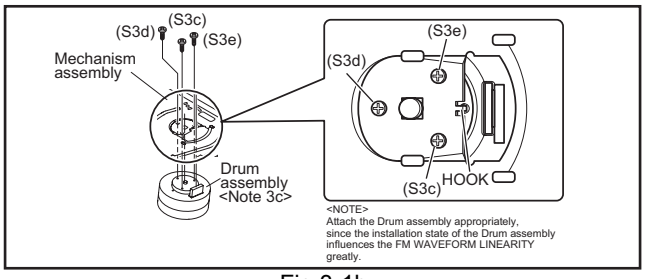


Fig.3-1b

- When handling the drum assembly alone, hold it by the motor or shaft. Be careful not to touch other parts, especially the video heads. Also take care not to damage the connectors.

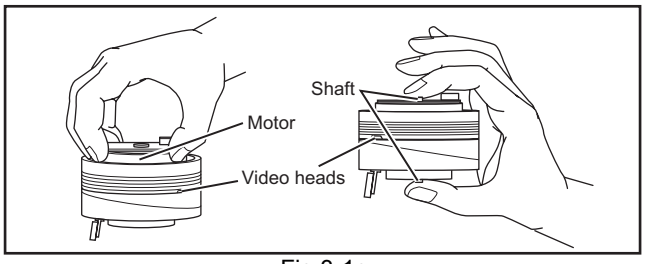


Fig.3-1c

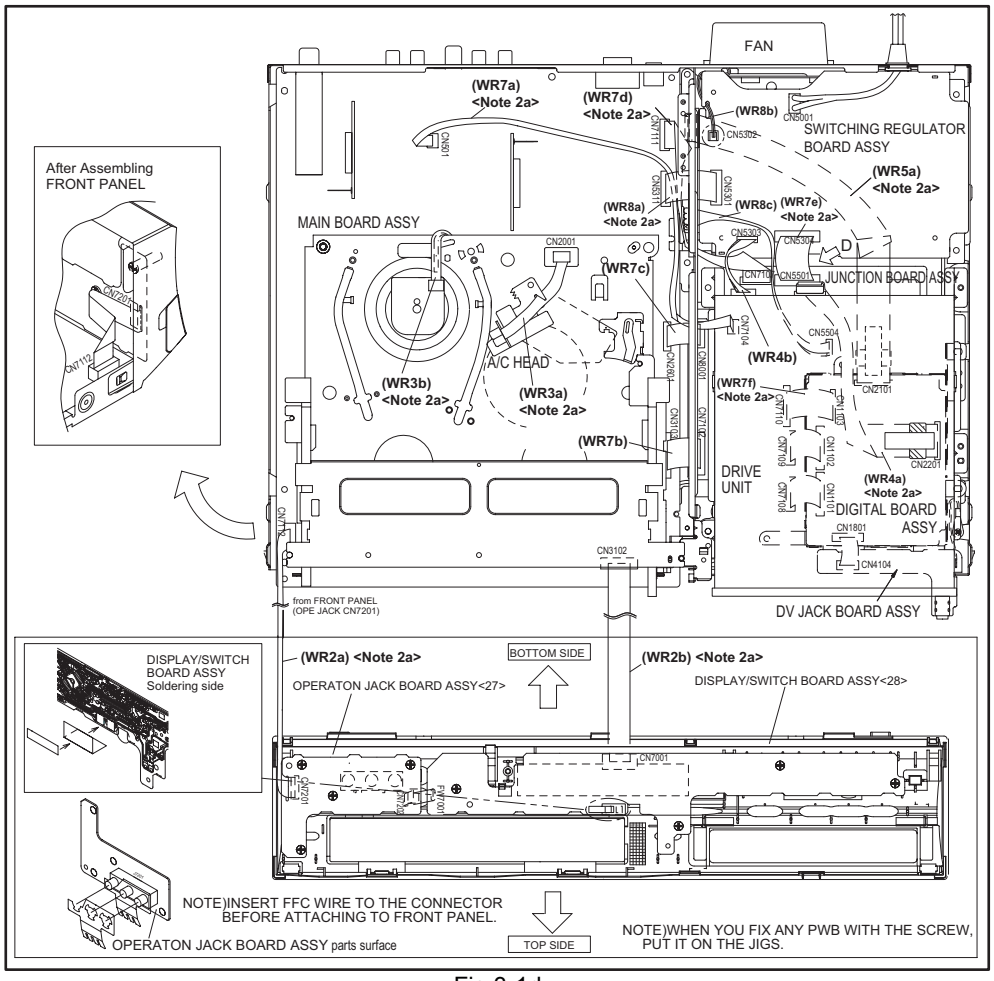


Fig.3-1d

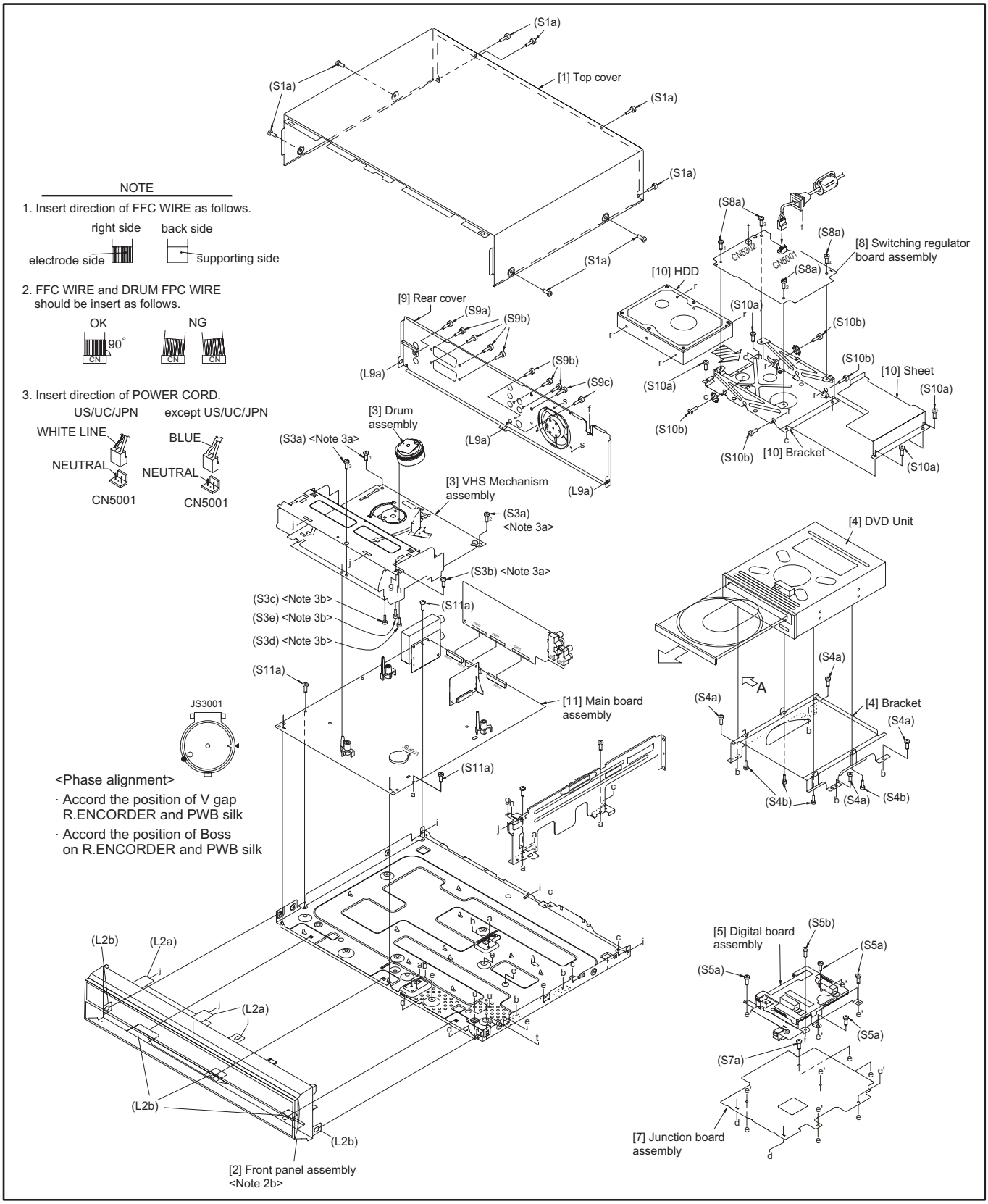

NOTE
1. Insert direction of FFC WIRE as follows.
right side
back side
electrode side
supporting side
2. FFC WIRE and DRUM FPC WIRE should be insert as follows.
OK
NG
90°
CN
3. Insert direction of POWER CORD.
US/UC/JPN
except US/UC/JPN
WHITE LINE
BLUE
NEUTRAL
NEUTRAL
CN5001
CN5001
<Phase alignment>
· Accord the position of V gap R.ENCORDER and PWB silk
· Accord the position of Boss on R.ENCORDER and PWB silk
JS3001
[1] Top cover
(S1a)
[2] Front panel assembly <Note 2b>
(L2a)
(L2b)
[3] Drum assembly
(S3a) <Note 3a>
[3] VHS Mechanism assembly
(S3b) <Note 3b>
(S3c) <Note 3b>
(S3d) <Note 3b>
(S3e) <Note 3b>
(S11a)
[4] DVD Unit
[4] Bracket
(S4a)
(S4b)
A
[5] Digital board assembly
(S5a)
(S5b)
[7] Junction board assembly
(S7a)
[8] Switching regulator board assembly
(S8a)
CN5302
CN5001
[9] Rear cover
(S9a)
(S9b)
(S9c)
(L9a)
[10] HDD
[10] Sheet
[10] Bracket
(S10a)
(S10b)
[11] Main board assembly

Fig.3-1e

SECTION 4
ADJUSTMENT

4.1 Before adjustment

4.1.1 Precaution

- **The adjustments of this unit include the mechanism compatibility and electrical adjustments. During the performance of this work, be sure to observe the precautions for each type of adjustment.**
- **If there is a reference to a signal input method in the signal column of the adjustment chart, "Ext. S-input" means the Y/C separated video signal and "Ext. input" means the composite video signal input.**
- **Unless otherwise specified, all measuring points and adjustment parts are located on the Main board.**

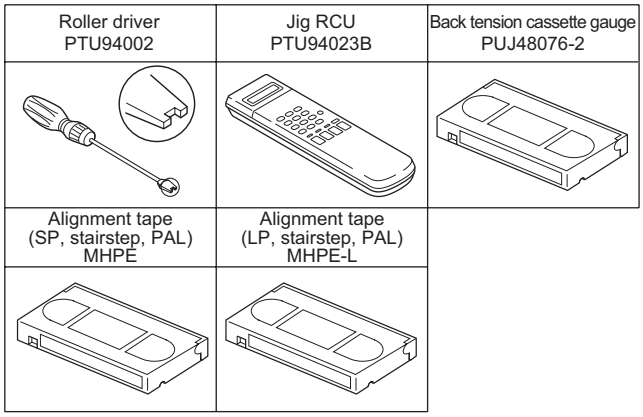
4.1.2 Required test equipments

- Color (colour) television or monitor
- Oscilloscope: wide-band, dual-trace, triggered delayed sweep
- Signal generator: RF / IF sweep / marker
- Signal generator: stairstep, color (colour) bar [PAL]
- Recording tape
- Digit-key remote controller(provided)

4.1.3 Required adjustment tools

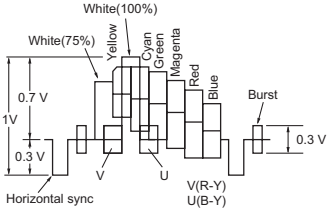
● : Used --- : Not used

	Mechanism compatibility adjustment	Electrical adjustment
Roller driver	●	---
Jig RCU	---	●
Back tension cassette gauge	●	---
Alignment tape(MHPE)	●	---
Alignment tape(MHPE-L)	●	●

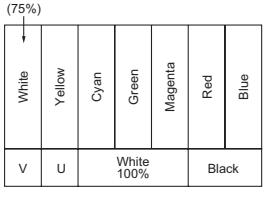


4.1.4 Color (colour) bar signal,Color (colour) bar pattern

• Colour bar signal [PAL]



• Colour bar pattern [PAL]



4.1.5 Switch settings

When adjusting this unit, set the VCR mode and switches as described below.

- When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). (See "section 2 SPECIFIC SERVICE INSTRUCTIONS".)

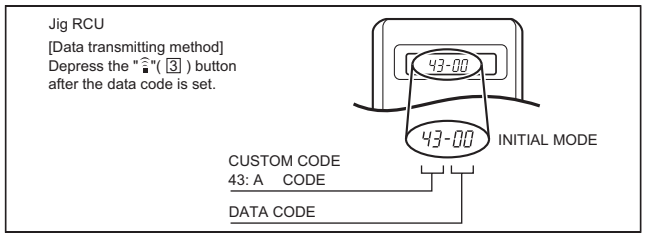


Fig.4-1a Jig RCU [PTU94023B]

- Set the switches as shown below unless otherwise specified on the relevant adjustment chart. The switches that are not listed below can be set as desired.
  If the VCR is not equipped with the functions detailed below, setup is not required.

AUTO PICTURE/VIDEO CALIBRATION/ B.E.S.T./D.S.P.C.	OFF
PICTURE CONTROL/SMART PICTURE	NORMAL/NATURAL
VIDEO STABILIZER	OFF
TBC	ON
Digital 3R	ON
VIDEO NAVIGATION/TAPE MANAGER	OFF
BLUE BACK	OFF

4.1.6 Manual tracking mode (Auto tracking ON/OFF) setting

(1) In order to set to the manual tracking mode during tape playback, press the "CHANNEL +/-"button on the unit simultaneously.
  - When the manual tracking mode is set, the tracking is placed at the center position.

(2) Press "CHANNEL +/-" to adjust the tracking manually.

4.1.7 EVR Adjustment

Some of the electrical adjustments require the adjustment performed by the EVR system. The main unit have EEPROMs for storing the EVR adjustment data and user setups.

Notes:

- **In the EVR adjustment mode, the value is varied with the channel buttons (+, -). The adjusted data is stored when the setting mode changes (from PB to STOP, when the tape speed is changed, etc.). Take care to identify the current mode of each adjustment item when making an adjustment.**
- **When changing the address setting in the EVR adjustment mode, use the Jig RCU or the remote controller having numeric keypad with which a numeric code can be directly input.**
  The remote control code of the Jig RCU corresponds to each of the digit keys on the remote controller as follows.

Digit-key	0	1	2	3	4	5	6	7	8	9
Code	20	21	22	23	24	25	26	27	28	29

- **As the counter indication and remaining tape indication are not displayed FDP during the EVR adjustment mode, check them on the TV monitor screen.**
- **When performing the EVR adjustment, confirm that the FDP indication is changed to the EVR mode.**

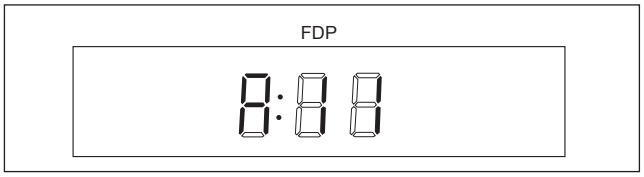


Fig.4-1b EVR mode

4.2 Mechanism compatibility adjustment (VHS SECTION)

Notes:

- **Although compatibility adjustment is very important, it is not necessary to perform this as part of the normal servicing work. It will be required when you have replaced the A/C head, drum assembly or any part of the tape transport system.**
- **To prevent damaging the alignment tape in the compatibility adjustment, prepare a cassette tape (for self-recording/playback), perform a test on it by transporting it and making sure that the tape is not bent by the tape transport mechanisms such as in the guide rollers.(See Fig.4-2b.)**

4.2.1 Tension pole position

Notes:

- **This adjustment must be performed every time the tension band is replaced.**

Signal	(A)	• Back tension cassette gauge [PUJ48076-2]
Mode	(B1) (B2)	• PB • Eject end
Adjustment part	(F)	• Adjust pin [Mechansim assembly]
Specified value	(G)	• 25 - 51 gf•cm (2.45 - 5 x 10^{-3} Nm)

(1) Play back the back tension cassette gauge (A).
(2) Check that the indicated value on the left side gauge is within the specified value (G).
(3) If the indicated value is not within the specified value (G), perform the adjustment in a following procedure.(See Fig.4-2a.)
   a) Remove the top frame, cassette holder and side frames (L/R) all together. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)
   b) Rotate the loading motor gear to move the control plate so that the triangular stamping to the left of the “P”stamping is aligned with the stamping (a) on the main deck. This positioning is mode (B1).
   c) Adjust by turning the adjustment pin so that the tip of the tension arm is aligned with the stamping (b) on the main deck.
   d) Rotate the reel disk (S) by about one turn clockwise and make sure that the round hole of the adjustment pin is located in the “OK” range. If it is outside this range, restart the adjustment from the beginning.

   After completion of the adjustment, rotate the loading gear motor to return it to the mode (B2) position.

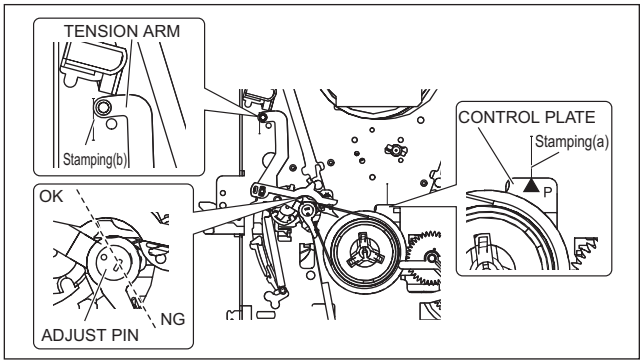


Fig.4-2a

4.2.2 FM waveform linearity

Signal	(A1) (A2)	• Alignment tape(SP, stairstep, PAL) [MHPE] • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Guide roller [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Make sure that there is no significant level drop of the V.PB FM waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required. (See Fig. 4-2c.)
(5) Reduce the V.PB FM waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller of the pole base assembly (supply side) with the roller driver to make the V.PB FM waveform linear.
   If a drop in level is on the right side, likewise turn the guide roller of the pole base assembly (take-up side) with the roller driver to make it linear. (See Fig. 4-2c.)
(6) Make sure that the V.PB FM waveform varies in parallel and linearly with the tracking operation again. When required, perform fine-adjustment of the guide roller of the pole base assembly (supply or take-up side).
(7) Unload the cassette tape once, play back the alignment tape (A1) again and confirm the V.PB FM waveform.
(8) After adjustment, confirm that the tape wrinkling does not occur at the roller upper or lower limits. (See Fig. 4-2b.) [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]

   [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]
(9) Repeat steps (1) to (8) by using the alignment tape (A2).

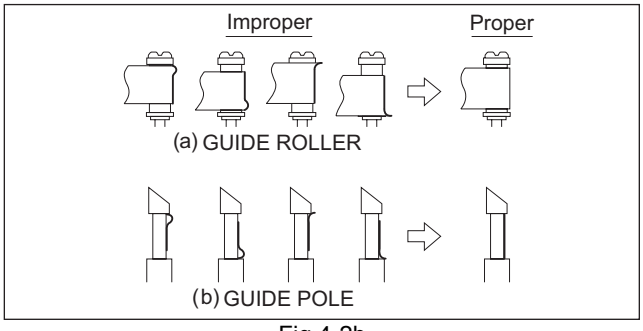


Fig.4-2b

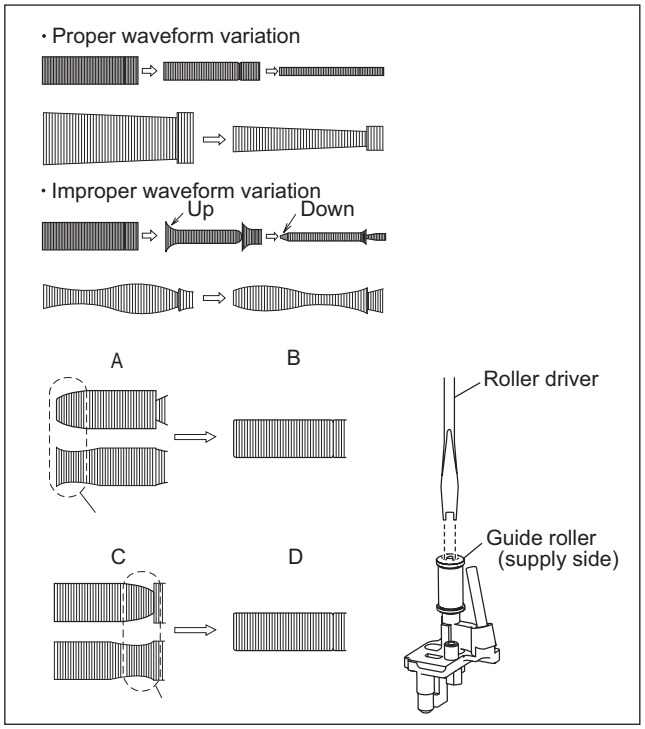


Fig.4-2c

4.2.3 Height and tilt of the A/C head

Note:

- **Set a temporary level of the height of the A/C head in advance to make the adjustment easier after the A/C head has been replaced. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)**

Signal	(A)	• Alignment tape(SP, stairstep, PAL) [MHPE]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D1) (D2)	• TP106 (PB. FM) • TP4001 (CTL. P)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head [Mechanism assembly]
Specified value	(G)	• Maximum waveform

(1) Play back the alignment tape (A).
(2) Apply the external trigger signal to D.FF (E), to observe the AUDIO OUT waveform and Control pulse waveform at the measuring points (D1) and (D2) in the ALT mode.
(3) Set the unit to the manual tracking mode.
(4) Adjust the AUDIO OUT waveform and Control pulse waveform by turning the screws (1), (2) and (3) little by little until both waveforms reach maximum. The screw (1) and (3) are for adjustment of tilt and the screw (2) for azimuth.

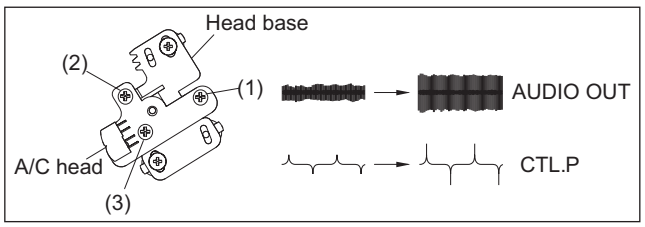


Fig.4-2d

4.2.4 A/C head phase (X-value)

Signal	(A1) (A2)	• Alignment tape(SP, stairstep, PAL) [MHPE] • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head base [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Loosen the screws (4) and (5), then set the Roller driver to the innermost projected part of the A/C head. (See Fig. 4-2e.)
(5) Rotate the roller driver so that the A/C head comes closest to the capstan. From there, move the A/C head back gradually toward the drum until the point where the FM waveform is maximized for the second time, and then tighten the screws (4) and (5) temporarily.
(6) Play an alignment tape (A2) and set to the manual-tracking mode.
(7) Fine-adjust A/C head base position to maximize the FM waveform, and then tighten the screws (4) and (5) firmly.
(8) Play alignment tapes (A1) and (A2) and confirm that the FM waveforms are maximized when the tracking is at the center position.

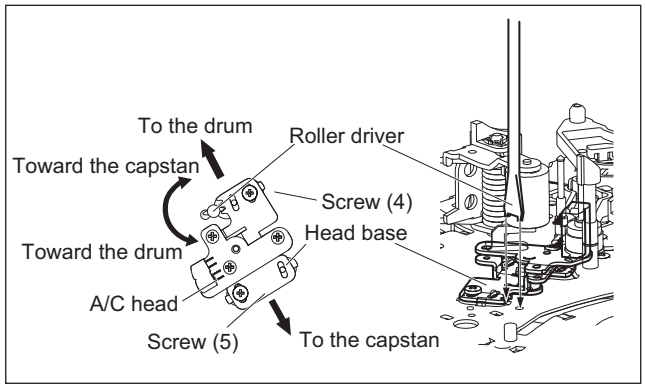


Fig.4-2e

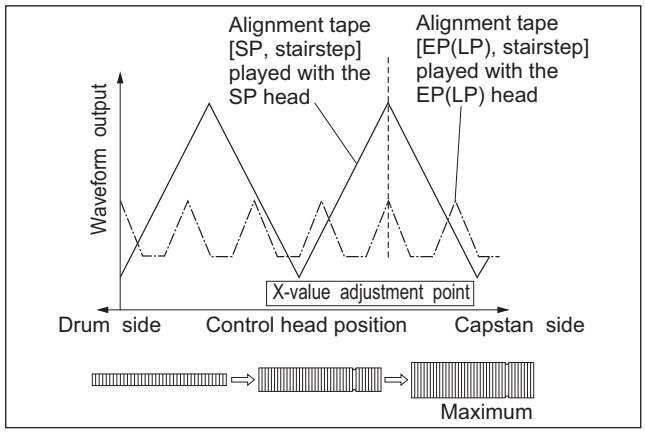


Fig.4-2f

4.3 Electrical adjustment

Note:

The following adjustment procedures are not only necessary after replacement of consumable mechanical parts or board assemblies, but are also provided as references to be referred to when servicing the electrical circuitry.

In case of trouble with the electrical circuitry, always begin a service by identifying the defective points by using the measuring instruments as described in the following electrical adjustment procedures. After this, proceed to the repair, replacement and/or adjustment. If the required measuring instruments are not available in the field, do not change the adjustment parts (variable resistor, etc.) carelessly.

4.3.1 Servo circuit

4.3.1.1 Switching point

Signal	(A1) (A2)	• Stairstep signal • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• VIDEO OUT terminal (75 ohm terminated) • TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Jig RCU: Code “43-5A”
Specified value	(G)	• 6.5 ± 0.5H
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Play back the signal (A1) of the alignment tape (A2).
(2) Apply the external trigger signal to D.FF (E) to observe the VIDEO OUT waveform and V.PB FM waveform at the measuring points (D1) and (D2).
(3) Set the VCR to the manual tracking mode.
(4) Adjust tracking so that the V.PB FM waveform becomes maximum.
(5) Set the VCR to the Auto adjust mode by transmitting the code (F) from the Jig RCU. When the VCR enters the stop mode, the adjustment is completed.
(6) If the VCR enters the eject mode, repeat steps (1) to (5) again.
(7) Play back the alignment tape (A2) again, confirm that the switching point is the specified value (G).

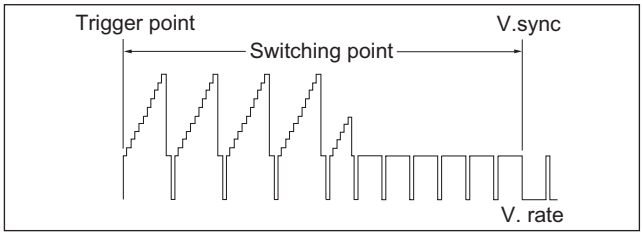


Fig.4-3a Switching point

4.3.1.2 Slow tracking preset

Signal	(A1) (A2)	• Ext. input • Color (colour) bar signal [PAL]
Mode	(B1) (B2)	• VHS SP • VHS LP
Measuring point	(D)	• TV-Monitor
Adjustment part	(F)	• Jig RCU: Code “43-71”or “43-72”
Specified value	(G)	• minimum noise
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Record the signal (A2) in the mode (B1), and play back the recorded signal.
(2) Set the VCR to the manual tracking mode.
(3) Set the VCR to the FWD slow (+1/6x) mode.
(4) Transmit the code (F) from the Jig RCU to adjust so that the noise bar becomes the specified value (G) on the TV monitor in the slow mode.
(5) Set the VCR to the Stop mode.
(6) Confirm that the noise bar is (G) on the TV monitor in the slow mode.
(7) Repeat steps (3) to (6) in the REV slow (+1/6x) mode.
(8) Repeat steps (1) to (7) in the mode (B2).

Note:

- **For FWD slow (+1/6x) playback, transmit the code “43-08” from the Jig RCU to enter the slow playback mode, and transmit the code “43-D0”for REV slow (-1/6x) mode.**

4.3.2 Syscon circuit

4.3.2.1 Timer clock

Signal	(A)	• No signal
Mode	(B)	• EE
Equipment	(C)	• Frequency counter
Measuring point	(D1) (D2) (D3)	• IC3001 pin 61 • IC3001 pin 24 • C3026 + and -
Adjustment part	(F)	• C3025 (TIMER CLOCK)
Specified value	(G)	• 1024.008 ± 0.01 Hz (976.5549 ± 0.0010 usec)

(1) Connect the frequency counter to the measuring point (D1).
(2) Connect the short wire between the short point (D2) and Vcc (5V).
(3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the Syscon.
(4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
(5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

SECTION 5
TROUBLESHOOTING

5.1 Manually removing the cassette tape

If you cannot remove the cassette tape which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

(1) Unplug the power cord plug from the power outlet.

(2) Refer to the disassembly procedure of the unit and perform the disassembly of the major parts before removing the mechanism assembly. (See Fig. 5-1a)

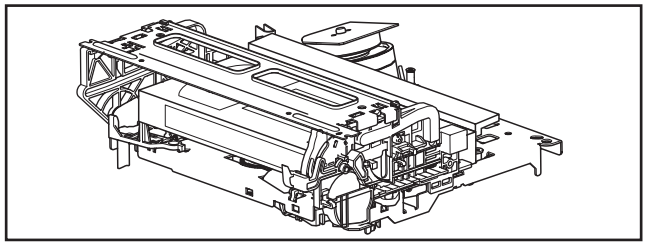


Fig.5-1a

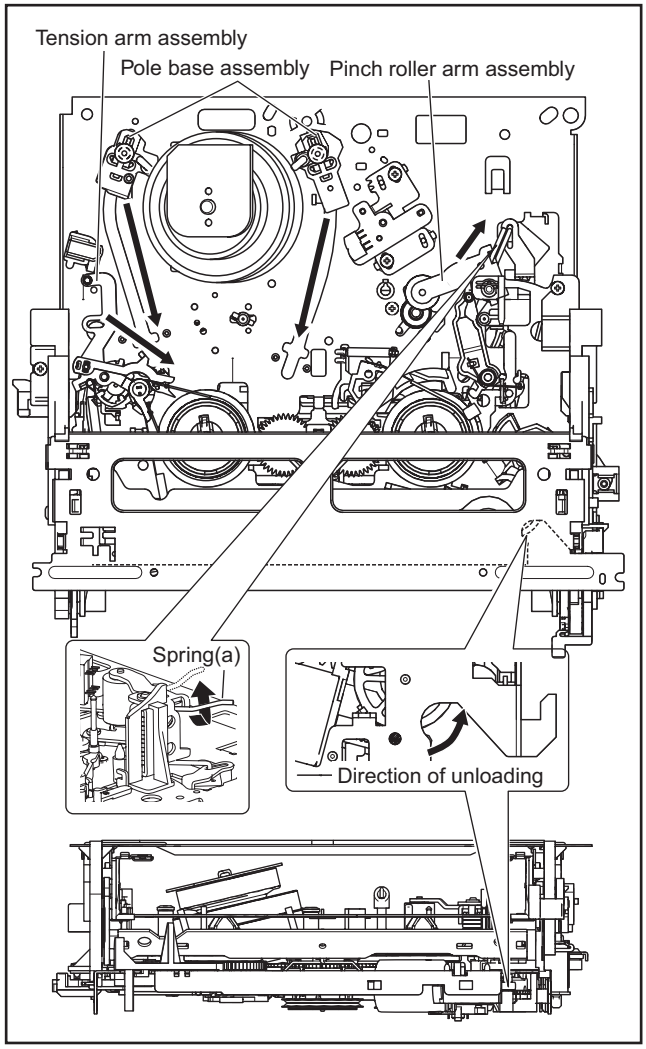


Fig.5-1b

(3) Unload the pole base assembly by manually turning the gear of the loading motor until the pole base assembly is hidden behind the cassette lid. In doing so, hold the tape by the hand to keep the slack away from any grease. (See Fig.5-1b)

In case of mechanical failures, while keeping the tension arm assembly free from tension, pull out the tape on the pole base assembly. Take the spring(a) of the pinch roller arm assembly off the hook, and detach it from the tape.

(4) Remove the screw (a) of the side frame (L/R).

(5) Hold the slack tape and cassette cover together, lift the cassette tape, top frame, cassette holder and side frames (L, R) together from the rear and remove them by dis-engaging the hooks (a) and (b).

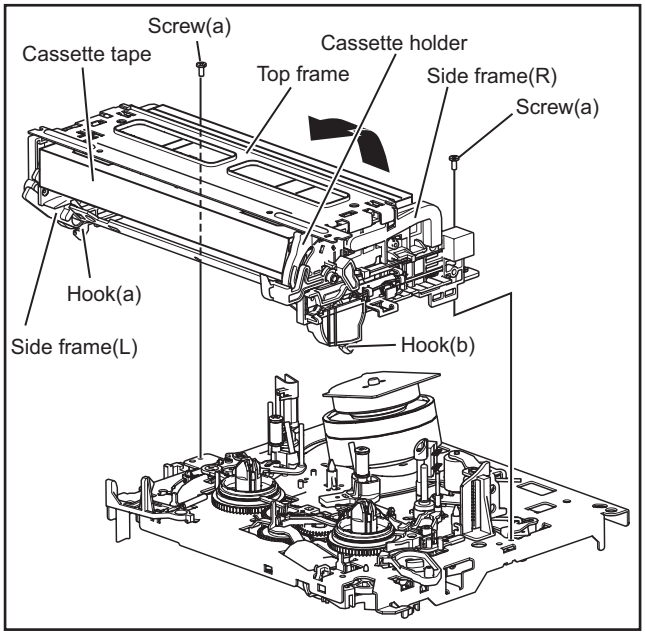


Fig.5-1c

(6) Take up the slack of the tape into the cassette. This completes removal of the cassette tape.

5.2 Manually removing the disk(DVD/CD)

If you cannot remove the disk which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

5.2.1 Method 1

(1) AC Plug is pulled out at once and inserted again.

(2) It is displayed on FDP as "PLEASE" and "WAIT" alternately, and while it blinks, pushing the OPEN/CLOSE button is continued.

(3) After a while, a tray opens (About 20 seconds).

(4) After removed a disk, press the OPEN/CLOSE button again to close the tray.The tray closes at about five seconds.

(5) The "PLEASE" and "WAIT" alternately blink display of FDP disappears and it will be in a standby mode.

(6) If the POWER button is pushed, it will usually be operating.

5.2.2 Method 2

(1) Unplug the ACpower cord from the AC outlet.

(2) Remove the top cover and front panel assembly.
(Refer to the disassembly procedure and perform the disassembly of the major parts before removing)

(3) Pass a thin wire through a hole in the DVD unit.

(4) The disc tray comes out slightly. Take out the disc tray manually.(See Fig.5-2a)

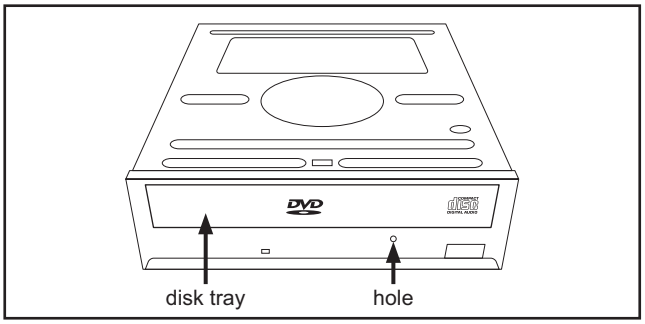


Fig.5-2a

5.3 Emergency display function (VHS SECTION)

This unit saves details of the last two emergencies as the EMG history and allows the status of the unit and the mechanism of each emergency to be shown both on the display and as OSD information.

When using the emergency function, it is required to set the unit to the Jig RCU mode.

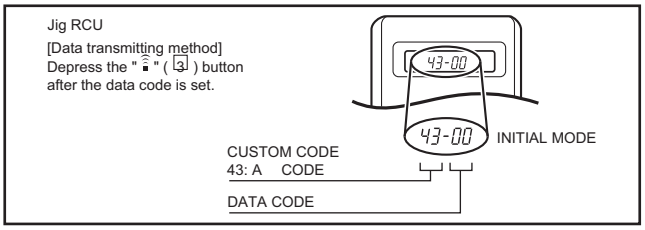


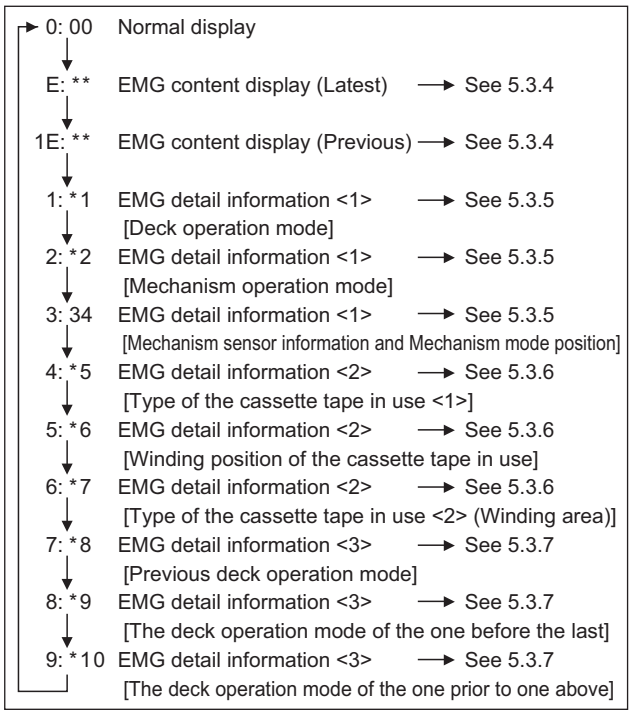
Fig.5-3a Jig RCU [PTU94023B]

5.3.1 Displaying the EMG information

The EMG detail of information can be displayed by transmitting the code "43-59" from the Jig RCU.

Note:

- **Press VHS/HDD/DVD SELECT button on the unit repeatedly first so that the VHS lamp lights up on the unit.**
- **The EMG detail information < 1 >< 2 > show the information on the latest EMG.**
  It becomes " - - : - - : - - " when there is no latest EMG record.


0: 00 Normal display
E: ** EMG content display (Latest) → See 5.3.4
1E: ** EMG content display (Previous) → See 5.3.4
1: *1 EMG detail information <1> → See 5.3.5
[Deck operation mode]
2: *2 EMG detail information <1> → See 5.3.5
[Mechanism operation mode]
3: 34 EMG detail information <1> → See 5.3.5
[Mechanism sensor information and Mechanism mode position]
4: *5 EMG detail information <2> → See 5.3.6
[Type of the cassette tape in use <1>]
5: *6 EMG detail information <2> → See 5.3.6
[Winding position of the cassette tape in use]
6: *7 EMG detail information <2> → See 5.3.6
[Type of the cassette tape in use <2> (Winding area)]
7: *8 EMG detail information <3> → See 5.3.7
[Previous deck operation mode]
8: *9 EMG detail information <3> → See 5.3.7
[The deck operation mode of the one before the last]
9: *10 EMG detail information <3> → See 5.3.7
[The deck operation mode of the one prior to one above]

EMG display of 7 FDP display model

Fig.5-3b

EMG display of FDP display mode

(1) Transmit the code "43-59" from the Jig RCU.
The FDP shows the EMG content in the form of "E:**:**".

<Example 1> E : 01 ← Latest EMG

<Example 2> E : - - ← No EMG record

(2) Transmit the code "43-59" from the Jig RCU again.
The FDP shows the EMG detail information < 1 > in the form of " *1: *2 : 34 ".

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : Mechanism mode position at the moment of EMG

(3) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 2 > in the form of " *5 : *6 : *7 ".

*5 : Type of the cassette tape in use < 1 > .
*6 : Winding position of the cassette tape in use
*7 : Type of the cassette tape in use < 2 > (Winding area)

(4) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 3 > in the form of "*8 : *9 : *10".

*8 : Previous deck operation mode at the moment of EMG
*9 : The deck operation mode of the one before the last at the moment of EMG
*10: The deck operation mode of the one prior to one above at the moment of EMG

(5) Transmit the code "43-59" from the Jig RCU once again to reset the display.

5.3.2 Clearing the EMG history

(1) Display the EMG history.
(2) Transmit the code "43-36" from the Jig RCU.
(3) Reset the EMG display.

5.3.3 Details of the OSD display in the EMG display mode

During the EMG display, the OSD shows the data on the deck mode, etc. The details of the display contents are as follows.

Notes:

- **The display is variable depending on the part No. of the System Control microcomputer (IC3001) built into the VCR. In the following, refer to the figure carrying the same two characters as the top two characters of the part number of your IC.**
- **The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information < 1 >.**

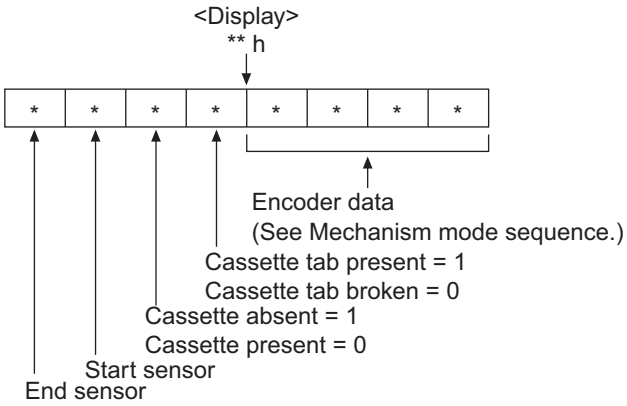
[For MN* only]

AA	BB	CC	DD	EE
FF	GG	HH	I I	J J
KK	L L	MM	NN	OO
PP	QQ	RR	SS	TT
UU	VV	WW	XX	YY

AA : Deck operation mode (See EMG detail information < 1 >.)
BB : Mechanism operation mode
(See EMG detail of information < 1 >.)
CC : Mechanism transition flag
DD : Capstan motor control status
EE : Loading motor control status
FF : Sensor information (See sensor information details.)
GG : Capstan motor speed
HH : Key code (JVC code)
I I : Supply reel winding diameter data higher 8 bits.
JJ : Supply reel winding diameter data lower 8 bits.
KK : Mechanism sensor information & mechanism mode position(See EMG detail of information < 1 >.)
LL : Tape speed data higher 8 bits.
MM : Tape speed data lower 8 bits.
NN : Cassette tape type < 2 > higher 8 bits.
(See EMG detail of information < 2 >.)
OO : Cassette tape type < 2 > lower 8 bits.
(See EMG detail of information < 2 >.)
PP : General data display area

YY : General data display area

***FF:Sensor information details**

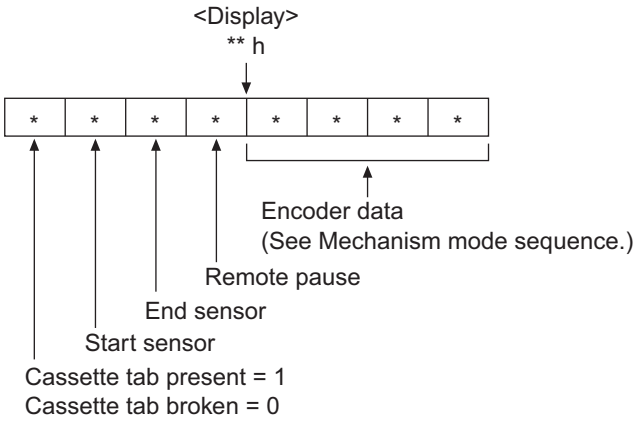


[For *HD only]

AA	BB	CC
DD	EE	FF
GGGG	HHHH	
I I	J J J J	
KKKK	L L L L	MMMM
ROM No.		

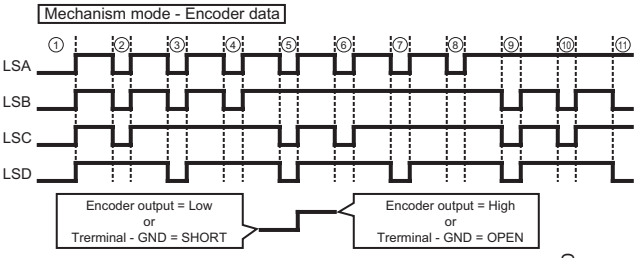
AA : Key code (JVC code)
BB : Deck operation mode(See EMG detail information < 1 >.)
CC : Mechanism operation mode (See EMG detail information < 1 >.)
DD : Sensor information (See sensor information details.)
EE : Capstan motor speed (Search, double speed)
FF : Tracking value
GGGG : Cassette tape type < 2 >, 16 bits.
(See EMG detail information < 2 >.)
HHHH : Supply reel winding diameter data
I I : Capstan motor speed (FF/REW, double speed)
JJJJ : Tape speed data, lower 8 bits.
KKKK : General data display area
LLLL : General data display area
MMMM : General data display area

***DD:Sensor information details**

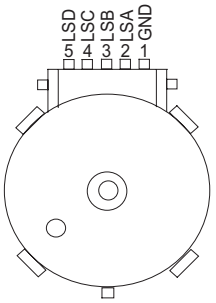


[For both MN*/HD*]

Mechanism mode sequence



No.	Position	Encoder data
①	EJECT	0 h = 0000
②	EJECT1	1 h = 0001
③	EJECT2	2 h = 0010
④	ULSTOP	3 h = 0011
⑤	UPPER	4 h = 0100
⑥	ONSTOP(PLAY)	5 h = 0101
⑦	FWD/SS	6 h = 0110
⑧	REV/SS	7 h = 0111
⑨	OFFSTOP	8 h = 1000
⑩	FFREW-BRAKE	9 h = 1001
⑪	FFREW	A h = 1010
⑫	MIDDLE	F h = 1111



5.3.4 EMG content description

Note:

EMG contents “E09” are for the model with Dynamic Drum (DD).

FDP	CONTENT	CAUSE
E01: Loading EMG	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, while the mechanism is in the after-loading position (with the tape up against the pole base), [E:01] is identified and the power is switched OFF. However, if the tape loading is not completed within 4 seconds after the loading motor starts rotating in the loading direction, the tape is simply unloaded and ejected. No EMG data is recorded in this case.	1. The mechanism is locked in the middle of the mode transition during a tape loading operation. 2. The mechanism overruns during the tape loading operation because the SYSCON cannot recognize the mechanism mode normally. This problem is due to a cause such as a rotary encoder failure. 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E02: Unloading EMG	When the mechanism mode cannot be changed to another mode even when the loading motor has rotated for more than 4 seconds in the unloading direction, [E:02] is identified and the power is turned off.	1. The mechanism is locked in the middle of mode transition. 2. Without an eject signal being sent from the SYSCON, unloading is attempted (i.e. Ejection is attempted while the tape is still inside the mechanism.) because the SYSCON cannot recognize the mechanism mode normally. This is due to a cause such as a rotary encoder failure. (Mechanism position: UPPER) 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E03: Take Up Reel Pulse EMG	When the falling edje of the take-up reel pulse has not been generated for more than 4 seconds in the capstan rotating mode, [E:03] is identified, the pinch rollers are turned off and stopped, and the power is turned off. In this case, however, the mechanism should be in position after tape loading. Note that the reel EMG is not detected during Slow/Frame advance operations.	1. The take-up reel pulse is not generated in the FWD transport modes (PLAY/FWD SEARCH/FF, etc.) because; 1) The idler gear is not meshed with the take-up reel gear because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to too large mechanical load (abnormal tension); 3) The reel is rotating normally but an FG pulse is not generated due to the take-up reel sensor failure. 2. The supply reel pulse is not generated in the REV transport modes (REV SEARCH/REW, etc.) because; 1) The idler gear is not meshed with the supply reel gear because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the supply reel gear, but incapable of winding due to too large a mechanical load (abnormal tension); 3) The reel rotates normally but the FG pulse is not generated due to a supply reel sensor failure. 3. Power(SW5V) is not supplied to the reel sensor on the tape winding side.
E04: Drum FG EMG	When the drum FG pulse has not been input for more than 3 seconds in the drum rotating mode, [E:04] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The drum could not start or the drum rotation has stopped due to too large a load on the tape, because; 1) The tape tension is abnormally high; 2) The tape is damaged or a foreign object (grease, etc.) adheres to the tape. 2. The drum FG pulse did not reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (hall device) of the drum is faulty. 3. The drum control voltage (DRUM CTL V) is not supplied to the MDA. 4. Power (M12V) is not supplied to the drum MDA.
E05: Cassette Eject EMG	If the cassette does not reach the eject position within about 0.7 seconds after the cassette housing has started the cassette ejection operation, [E:05] is identified, the drive direction is reversed to load the tape, the mode is switched to STOP mode with the pinch roller OFF, and the power is switched OFF. During the cassette insertion process, the drive direction is reversed and the cassette is ejected if the tape is not up against the pole base within about 3 seconds after the start of the cassette pulling-in operation. If the cassette does not reach the eject position within about 0.7 seconds after the drive mode reversal operation, [E:05] is identified and the power is switched OFF immediately.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing factors: Temperature environment (low temperature, etc.), mechanism wear or failure. 3. The sensor/switch for detecting the end of ejection are not functioning normally. 4. The loading motor drive voltage is lower than specified or power (M12V) is not supplied to the motor (MDA). 5. When the user attempted to eject a cassette, a foreign object (or perhaps the user's hand) was caught in the opening of the housing.
E06: Capstan FG EMG	When the capstan FG pulse has not been generated for more than 1 second in the capstan rotating mode, [E:06] is identified, the pinch rollers are turned off and stopped, and the power is turned off.However, the capstan EMG is not detected in SLOW/STILL modes. Note that, if the part number of the System Control IC begins with "MN" or "M3", the capstan EMG is not detected even during the FF/REW operation.	1. The capstan could not start or the capstan rotation has stopped due to too large a load on the tape, because; 1) The tape tension is abnormally high (mechanical lock); 2) The tape is damaged or a foreign object (grease, etc.) is adhered to the tape (occurrence of tape entangling, etc.). 2. The capstan FG pulse did not reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (MR device) of the capstans is faulty. 3. The capstan control voltage (CAPSTAN CTL V) is not supplied to the MDA. 4. Power (M12V, SW5V) are not supplied to the capstan MDA.
E07: SW Power Short-Circuit EMG	When short-circuiting of the SW power supply with GND has lasted for 0.5 second or more, [E:07] is identified, all the motors are stopped and the power is turned off.	1. The SW 5 V power supply circuit is shorted with GND. 2. The SW 12 V power supply circuit is shorted with GND.
E08: DVD EMG	When communication with a system computer of VHS side is not carried out because of the defective DVD unit, or when the DVD unit must be reset	1. The DVD unit is defective. 2. Contact failure of the wires in the DVD unit or VHS side.
E09: DD FG EMG	When the DD FG pulse is not generated within 2.5 seconds, [E:09] is identified, the tilt motor is stopped and the power is turned off.	1. The FG sensor is defective. (The soldered parts have separated.) 2. The pull-up resistor at the FG sensor output is defective. (The soldered parts have separated.) 3. Contact failure or soldering failure of the pins of the connector (board-to-board) to the FG sensor. 4. The power (5V) to the sensor is not supplied. (Connection failure/soldering failure) 5. The FG pulse is not sent to the System Controller CPU. 6. The tilt motor is defective. (The soldered parts have separated.) 7. The drive power to the tilt motor is not supplied. (Connection failure/soldering failure) 8. The tilt motor drive MDA - IC is defective. 9. Auto-recovery of the DD tilting cannot take place due to overrun.
E0A: Supply Reel Pulse EMG	When the falling edge of the supply reel pulse has not been generated for more than 10 seconds in the capstan rotating mode, [E:0A] is identified and the cassette is ejected (but the power is not turned off). In this case, however, the mechanism should be in the position after tape loading (with the tape up against the pole base). Also note that the reel EMG is not detected during Slow/Frame advance operations.	1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF, etc.) because; 1) PLAY/FWD or SEARCH/FF is started while the tape in the inserted cassette is cut in the middle; 2) A mechanical factor caused tape slack inside and outside the supply reel side of the cassette shell. In this case, the supply reel will not rotate until the tape slack is removed by the FWD transport, so the pulse is not generated until then; 3) The reel is rotating normally but the FG pulse is not generated due to a supply reel sensor failure. 2. The take-up reel pulse is not generated in the REV transport mode (REV SEARCH/REW, etc.). 1) REV SEARCH/REW is started when the tape in the inserted cassette has been cut in the middle; 2) A mechanical factor caused tape slack inside and outside the take-up reel side of the cassette shell. In this case, the take up will not rotate until the tape slack is removed by the REV transport, so the pulse will not be generated until that time; 3) The reel is rotating normally but the FG pulse is not generated due to a take-up reel sensor failure. 3. The power (SW 5V) to a reel sensor is not supplied.
EU1: Head clog warning history	Presupposing the presence of the control pulse output in the PLAY mode, when the value obtained by mixing the two V.FM output channels (without regard to the A.FM output) has remained below a certain threshold level for more than 10 seconds, [E:U1] is identified and recorded in the emergency history. During the period in which the head clog is detected, the FDP shows "U:01" and the OSD repeats the "3 seconds of warning display" and the "7 seconds of noise picture display" alternately. EMG code : "E:C1" or "E:U1" / FDP : "U:01" / OSD : "Try cleaning tape." or "Use cleaning cassette." The head clog warning is reset when the above-mentioned threshold has been exceeded for more than 2 seconds or the mode is changed to another mode than PLAY.	

5.3.5 EMG detail information < 1 >

The status (electrical operation mode) of the VCR and the status (mechanism operation mode/sensor information) of the mechanism in the latest EMG can be confirmed based on the figure in EMG detail information < 1 > .

[FDP/OSD display] *1 : *2 : 34

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : Mechanism mode position at the moment of EMG

Note:

- **For EMG detailed information < 1 >, the content of the code that is shown on the display (or OSD) differs depending on the parts number of the system control microprocessor (IC3001) of the VCR. The system control microprocessor parts number starts with two letters, refer these to the corresponding table.**

***1 : Deck operation mode**

[Common table of MN* and HD]

Display		Deck operation mode
MN*	HD*	
00	-	Mechanism being initialized
01	00	STOP with pinch roller pressure off (or tape present with P.OFF)
02	01	STOP with pinch roller pressure on
03	-	POWER OFF as a result of EMG
04	04	PLAY (Normal playback)
0C	0E	REC
10	11	Cassette ejected
20	22	FF
21	-	Tape fully loaded, START sensor ON, short FF
22	-	Cassette identification FWD SEARCH before transition to FF (SPx7-speed)
24	26	FWD SEARCH (variable speed) including x2-speed
2C	2E	INSERT REC
40	43	REW
42	-	Cassette identification REV SEARCH before transition to REW (SPx7-speed)
44	47	REV SEARCH (variable speed)
4C	4C	AUDIO DUB
6C	6E	INSERT REC (VIDEO + AUDIO)
84	84	FWD STILL / SLOW
85	85	REV STILL / SLOW
8C	8F	REC PAUSE
8D	-	Back spacing
8E	-	Forward spacing (FWD transport mode with BEST function)
AC	AF	INSERT REC PAUSE
AD	-	INSERT REC back spacing
CC	CD	AUDIO DUB PAUSE
CD	-	AUDIO DUB back spacing
EC	EF	INSERT REC (VIDEO + AUDIO) PAUSE
ED	-	INSERT REC (VIDEO + AUDIO) back spacing

***2 : Mechanism operation mode**

[Table of MN*]

Display	Mechanism operation mode
00	Command standby (No command to be executed)
01	Immediate Power OFF after EMG occurrence
02	Loading from an intermediate position during mechanism initialization
03	Unloading due to EMG occurrence during mechanism initialization
04	Ejecting cassette (ULSTOP to EJECT)
05	Inserting cassette (EJECT to ULSTOP)
06	Loading tape (ULSTOP to PLAY)
07	Unloading tape (PLAY to ULSTOP)
08	Transition from pinch roller ON to STOP
09	Transition from pinch roller OFF to STOP (PLAY to OFFSTOP)
0A	Transition from pinch roller OFF to STOP at power OFF
0B	Transition from pinch roller ON to STOP at power ON
0C	Transition to PLAY
0D	Transition to Search FF
0E	Transition to REC
0F	Transition to FWD STILL/SLOW
10	Transition to REV STILL/SLOW
11	Transition to Search REV
12	Transition from FF/REW to STOP
13	Transition to FF
14	Transition to REW
15	Tape end detection processing during loading
16	Short FWD/REV at tape sensor ON during unloading
17	Transition to FF/REW brake mode

[Table of HD*]

Display	Mechanism operation mode
00	STOP with pinch roller pressure off
01	STOP with pinch roller pressure on
02	U/L STOP (or tape being loaded)
04	PLAY (Normal playback)
05	PLAY (x1-speed playback using JOG)
0E	REC
11	Cassette ejected
22	FF
26	FWD SEARCH (variable speed) including x2-speed
2E	INSERT REC
43	REW
47	REV SEARCH
4C	AUDIO DUB
6E	INSERT REC (VIDEO + AUDIO)
84	FWD STILL/SLOW
85	REV STILL/SLOW
8F	REC PAUSE
AF	INSERT REC PAUSE
C7	REV SEARCH (x1-speed reverse playback using JOG)
CD	AUDIO DUB PAUSE
EF	INSERT REC (VIDEO + AUDIO) PAUSE
F0	Mechanism being initialized
F1	POWER OFF as a result of EMG
F2	Cassette being inserted
F3	Cassette being ejected
F4	Transition from STOP with pinch roller pressure on to STOP with pinch roller pressure off
F5	Transition from STOP with pinch roller pressure on to PLAY
F6	Transition from STOP with pinch roller pressure on to REC
F7	Cassette type detection SEARCH before FF/REW is being executed
F8	Tape being unloaded
F9	Transition from STOP with pinch roller pressure off to STOP with pinch roller pressure on
FA	Transition from STOP with pinch roller pressure off to FF/REW
FB	Transition from STOP with pinch roller pressure off to REC.P (T.REC,etc.)
FC	Transition from STOP with pinch roller pressure off to cassette type detection SEARCH
FD	Short REV being executed after END sensor on during unloading
FE	Tension loosening being executed after tape loading (STOP with pinch roller pressure on)
FF	Tape being unloaded

3- : Mechanism sensor information

[Common table of MN* and HD*]

Display	Mechanism sensor informatio n			
	REC safety SW	Start sensor	End sensor	Mechansim position sensor
0-	Tab broken	ON	ON	ON
1-	Tab broken	ON	ON	OFF
2-	Tab broken	ON	OFF	ON
3-	Tab broken	ON	OFF	OFF
4-	Tab present	OFF	ON	ON
5-	Tab present	OFF	ON	OFF
6-	Tab present	OFF	OFF	ON
7-	Tab present	OFF	OFF	OFF
8-	Tab broken	ON	ON	ON
9-	Tab broken	ON	ON	OFF
A-	Tab broken	ON	OFF	ON
B-	Tab broken	ON	OFF	OFF
C-	Tab present	OFF	ON	ON
D-	Tab present	OFF	ON	OFF
E-	Tab present	OFF	OFF	ON
F-	Tab present	OFF	OFF	OFF
	Tab broken = 0 Tab present = 1	Sensor ON = 0 sensor OFF = 1	Sensor ON = 0 Sensor OFF = 1	

-4 : Mechanism mode position

[Common table of MN* and HD*]

Mechanism sensor information	Dis-play	Deck operation mode	
Even number (0, 2, 4, 6, 8, A, C, E)	-0	Not established	
	-1	EJECT	EJECT position
	-2	EJECT-EJECT1	Intermodal position
	-3	EJECT1	EJECT1 position
	-4	EJECT1-EJECT2	Intermodal position
	-5	EJECT2	EJECT2 position
	-6	EJECT2-ULSTOP	Intermodal position
	-7	ULSTOP	ULSTOP position
	-8	ULSTOP-UPPER	Intermodal position
	-9	UPPER	Loading (unloading) tape
	-A	UPPER-ONSTOP	Intermodal position
	-B	ONSTOP	PLAY position
	-C	PLAY-FWD/SS	Intermodal position
	-D	FWD/SS	FWD (FWD Still/Slow) position
	-E	FWD/SS-REV	Intermodal position
	-F	REV	REV (REV Still/Slow) position
Odd number (1, 3, 5, 7, 9, B, D, F)	-0	REV-OFFSTOP	Intermodal position
	-1	OFFSTOP	Pinch roller OFF position
	-2	OFFSTOP-FFREWB	Intermodal position
	-3	FFREWB	FF/REW Brake position
	-4	FFREWB-FFREW	Intermodal position
	-5	FFREW	FF/REW position

5.3.6 EMG detail information < 2 >

The type of the cassette tape and the cassette tape winding position can be confirmed based on the figure in EMG detail information < 2 > .

Note:

- **EMG detail information < 2 > is the reference information stored using the remaining tape detection function of the cassette tape. As a result, it may not identify cassette correctly when a special cassette tape is used or when the tape has variable thickness.**

*5 : Cassette tape type < 1 >

Display	Cassette tape type <1>
00	Cassette type not identified
16	Large reel/small reel (T-0 to T-15/T-130 to T-210) not classified
82	Small reel, thick tape (T-120) identified/thin tape (T-140) identified
84	Large reel (T-0 to T-60) identified
92	Small reel, thick tape (T-130) identified/thin tape (T-160 to T-210) identified
93	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) not classified
C3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
D3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
E1	C cassette, thick tape (TC-10 to TC-20) identified
E2	Small reel, thick tape (T-0 to T-100) identified
E9	C cassette, thin tape (TC-30 to TC-40) identified
F1	C cassette, thick tape/thin tape (TC-10 to TC-40) not classified

Notes:

- **Cassette tape type < 1 > is identified a few times during mode transition and the identification count is variable depending on the cassette tape type. If an EMG occurs in the middle of identification, the cassette tape type may not be able to be identified.**
- **If other value than those listed in the above table is displayed, the cassette tape type is not identified.**

*6 : Cassette tape winding position

The cassette tape winding position at the moment of EMG is displayed by dividing the entire tape (from the beginning to the end) in 21 sections using a hex number from “00” to “14”.

00 : End of winding
14 : Beginning of winding
FF : Tape position not identified

*7 : Cassette tape type < 2 > (Winding area)

Display	Cassette tape type <2>		(Reference) Word data (Beginning) (End)
00	Cassette type not identified		
04 - 08	C cassette, thick tape	TC-10	(0497 - 0506) (0732 - 0858)
05 - 06	Small reel, thick tape	T-20	(05A9 - 0661)
05 - 0C	C cassette, thick tape	TC-20P	(0599 - 05FF) (0AA1 - 0C07)
06 - 0C	C cassette, thin tape	TC-40	(0623 - 063D) (0C41 - 0CC3)
06 - 0C	C cassette, thin tape	TC-30	(0611 - 0638) (0C0C - 0CB2)
07 - 08	Small reel, thick tape	T-40	(07CC - 08E5)
09 - 0B	Small reel, thick tape	T-60	(09FD - 0B78)
0C - 0D	Small reel, thick tape	T-80(DF-160)	(0C20 - 0DFC)
0D - 0F	Small reel, thick tape	T-90(DF-180)	(0D31 - 0F3E)
0E - 10	Small reel, thick tape	T-100	(0E43 - 107F)
10 - 12	Small reel, thin tape	T-140	(10E1 - 120C)
10 - 13	Small reel, thick tape	T-120(DF-240)	(1073 - 1313)
11 - 14	Small reel, thick tape	T-130	(1185 - 1429)
12 - 14	Small reel, thin tape	T-160	(12D3 - 141F)
13 - 14	Small reel, thin tape	T-210(DF-420)	(1373 - 14C3)
13 - 14	Small reel, thin tape	T-180(DF-360)	(1357 - 14C0)
13 - 14	Small reel, thin tape	T-168	(1395 - 14EE)
13 - 14	Small reel, thick tape	DF-300	(13A8 - 14CE)
15 - 16	Large reel	T-20	(1536 - 1618)
16 - 17	Large reel	T-30	(1647 - 175A)
17 - 18	Large reel	T-40	(1759 - 189C)
19 - 1B	Large reel	T-60	(1989 - 1B2F)

Note:

- **The values of cassette tape type < 2 > in the above table are typical values with representative cassette tapes.**

5.3.7 EMG detail information < 3 >

Three deck operation modes preceding the deck operation mode in which the EMG occurs may be confirmed based on the figures in the EMG information detail < 3 >. For the contents of the displayed information, see the table "Deck operation mode" in section "5.3.5 EMG detail information < 1 >".

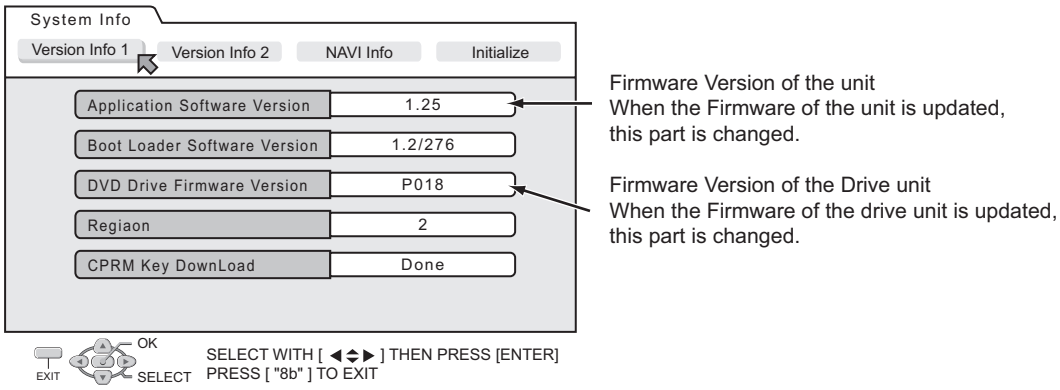
5.4 Display function of DVD section

5.4.1 Displaying SYSTEM INFO

SYSTEM INFO contains information on firmware version of the unit and the mechanism drive, and an initialize execution menu.

(1) Set the unit to the Jig RCU mode.
(2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the HDD lamp lights up on the unit.
(3) Transmit "43-8b" from the Jig RCU.(Please end a setting menu pushing " SET UP" button of the remote control unit appended to the commodity beforehand when a setting menu is displayed.)
(4) SYSTEM INFORMATION menu is displayed in the screen.
(5) To move cursor in SYSTEM INFO, use the " ▲", "▼ ", "◀ ", and "▶ " buttons of a remote control unit attached to product.
(6) To quit the SYSTEM INFO menu, transmit "43-8b" from the Jig RCU..
(7) Cancel Jig RCU mode.

The example of a display **< Version Info 1 >**



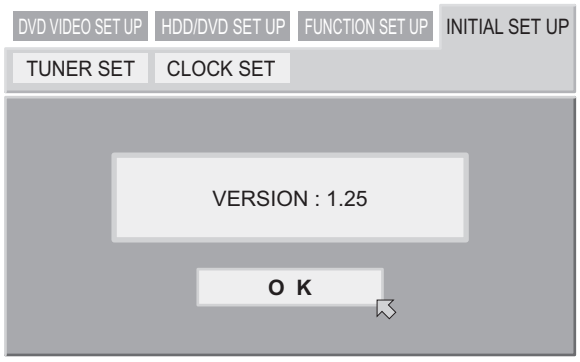
NOTE:

Items other than the ones described above are not used in service work.

5.4.2 Displaying the firmware version of the main body in the user mode

- The version information of the main body firmware can be displayed in the normal mode (user mode) without using the Jig mode.
- The version can be checked by the user operation when it is required to check the version when there are failure inquiries from the users.

(1) Turn the power of the main body ON.
(2) Press the "SET UP" button of the supplied remote control unit to display the setting menu screen.
(3) Move the arrow to the "INITIAL SET UP" tab, keep pressing the "STOP" button of the main body for 10 seconds in that condition.
(4) The screen changes to the display shown in the below diagram, and the firmware version of the main body is indicated.



5.4.3 Updating the firmware of the unit

- Firmware update disc supports CD-R media.
- When firmware update is necessary, information is available from the website of DIGITAL VIDEO STORAGE CATEGORY, CS group.

5.4.3.1 Creating an update disc

Please check the details of the update disc creation method by JS-NET.

(1) Down load the update file from JS-NET.
(2) Write the update file into CD-R. Pay attention in the following points when writing the update disc.

- Make sure to write in “Disc at Once”.
- Set the file compatibility to “ISO9660 format”. (ROMEO, JOLIET are disapproved.)
  If the writing method is not correct, the update results in an error.

5.4.3.2 Update procedure

- There are two methods of updating firmware, using JIG RCU mode < method 1 > or not using JIG mode(User update mode) < method 2 >. Both methods can be used to update the firmware.

< Method 1 >

(1) Set to the Jig RCU mode.
(2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the update disc on the tray, and then close the tray.
(4) When the disc reading operation is completed, transmit “43-70” with the Jig remote control unit.
If the update disc is not correct, FDP indicator displays an “ERROR” after transmitting “43-70”. Transmit “43-70” once and make the FDP indicator to normal display, and then reload the disc then transmit “43-70” again.
(5) “UPDATE” is displayed in the FDP indicator, and the FDP indicator changes to “FW UPDATE” afterwards. It takes approx. 2 minutes for the change.
(6) Remove the disc as the tray is ejected, and then transmit “43-70” with the Jig remote control unit. Then the FDP indicator changes from “UPDATE” to the normal display.
(7) Close the tray and turn the unit OFF. Pull out the power code from the wall socket, then plug the power cord into the wall socket again.
(8) When "PLEASE" and "WAIT" blink alternately in the FDP indicator disappears, turn the unit ON.
(9) Display the SYSTEM INFO menu, and check the version of the firmware.
(10) Cancel the Jig RCU mode.

< Method 2 >

(1) Turn the power ON. Load the update disc on the tray and close the tray.
Press VHS/HDD/DVD select button on the unit repeatedly so that the DVD lamp lights up on the unit.
(2) When the disc reading operation is completed, Keep pressing the “STOP” button on the unit for 5 seconds.(Until FDP indicator changes to “UPDATE”).
(3) In approx. 2 minutes the tray is ejected. Remove the disc and close the tray.
(4) Reset operation is carried out automatically, and it becomes standby condition.
(5) Then, display the SYSTEM INFO menu in the Jig RCU mode and check the version.

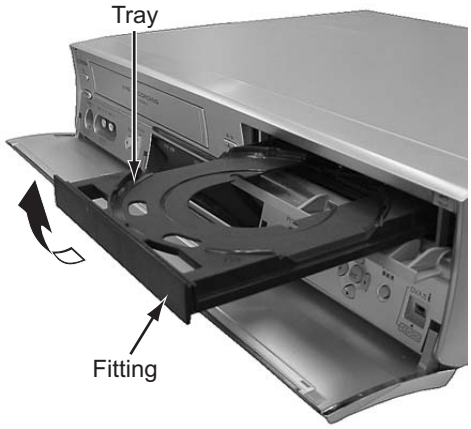
5.4.4 Updating the firmware of the drive unit

- Firmware update disc supports only DVD-RAM media.
- When firmware update is necessary, written discs are distributed by DIGITAL VIDEO STORAGE CATEGORY, CS group.

(1) Turn the unit ON.
(2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the update DVD-RAM disc on the tray and close the tray.
(4) “READING” is displayed in the FDP indicator and the update is started.
(5) In a short while “READING” in the FDP indicator disappears, open the tray to remove the disc and close the tray.
(6) Turn the power OFF and pull out the power code from the wall socket, then plug the power cord into the wall socket again.
(7) Set to the Jig RCU mode and check the firmware version of the drive.

5.4.5 Exchanging the fitting

As the fitting that comes with the service drive unit cannot be used, make sure to attach a service fitting when the drive unit is exchanged. The fitting that is removed from the old drive unit can be attached to the new drive unit.
The fitting can be removed by pulling upwards while opening out the lower part of the fitting outwards.



5.4.6 Initialization to the factory shipment state

When the initialization is operated, internal information changes as follows. It is essential to obtain the client's permission before the operation.

- All DVD library is all deleted.
- All the DVD initial settings go back to the initial status.
  (1) Set to the Jig RCU mode.
  (2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
  (3) Transmit "43-6F" with the Jig remote control unit.
  (4) FDP indicator displays "FACTORY", and changes to "CHECK OK" after blinking for a short while.
  (5) Pull out the power code from the wall socket.
  (6) The Jig RCU mode is forced to cancel at the same time with the initialization, check whether the Jig RCU mode is canceled by plugging the power code into the wall socket again. (The colon ":" in time display should be continuously ON, not blinking.)
  If the Jig RCU mode is not canceled, transmit "43-9D" with Jig remote control unit to cancel the Jig RCU mode.

5.4.7 Setting after the drive unit replacement

When the drive unit is replaced, it is necessary to set a region code. Service drive units for replacement are not set for any region code, and they are in an indefinite condition.
Make sure to set region code after attaching the drive unit to the unit.
Without the setting of the region code, discs that have regions cannot be played back.

5.4.7.1 Creating a region setting disc.

Please check the details of the region setting disc creation method by JS-NET.

(1) Download the region setting file from JS-NET.
(2) Write the region setting file into CD-R. Pay attention in the following points when writing the file into CD-R.
  - Make sure to write in "Disc at Once".
  - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved).
  If the writing method is not correct, the normal setting cannot be performed.

5.4.7.2 Setting the region

(1) Set for the Jig RCU mode.
(2) Press VHS/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
(3) Load the region setting disc on the tray, and then close the tray.
(4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.
(5) FDP indicator changes to "UPDATE". Remove the disc as the tray will open for a few seconds.
(6) Then, check whether the FDP indicator is "REGION 2", and then close the tray.
(7) Turn the power OFF, and pull out the power code, and then plug the power code in again.
(8) Cancel the Jig RCU mode.

5.4.8 When it is displayed in FDP, 'RESETTING'

- When the following operations are carried out, "RESETTING" is displayed in the FDP of the main body.
  (1) When the "POWER" button and the "STOP" button of the main body are pressed at the same time
  (2) When the code "9B" is transmitted to the main body by using JIG remote control unit
  (3) When transmission failure occurs between the main CPU and the DVD host CPU due to defect
  If "RESETTING" is displayed in the FDP after the power code is plugged into the outlet, check the followings.
- The peripheral circuitry of each microcomputer
- Whether the wire between the DVD drive and the board is properly connected
- Whether the wire between the main board and the digital board is properly connected

JVC
Victor Company of Japan, Limited
DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD084)

Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

VHS & HDD & DVD VIDEO RECORDER

DR-MX10SE, DR-MX10SEF, DR-MX10SEK

CD-ROM No.SML200601

Area Suffix

E ------- Continental Europe
Northern Europe
EF ---------- France
EK ---------- U.K.

SHOWVIEW™ (E model)

SHOWVIEW® (EF model)

VIDEO Plus+® (EK model)

DR-MX10SE, DR-MX10SEF, DR-MX10SEK [D5VC21]

*Since the whole mechanism assembly unit is replaced, the DVD recordermechanism of this unit need not be adjusted.
*For disassembling and assembling of VHS MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700 (MECHANISM ASSEMBLY).

COPYRIGHT © 2006 Victor Company of Japan, Limited

No.YD084SCH
2006/1

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

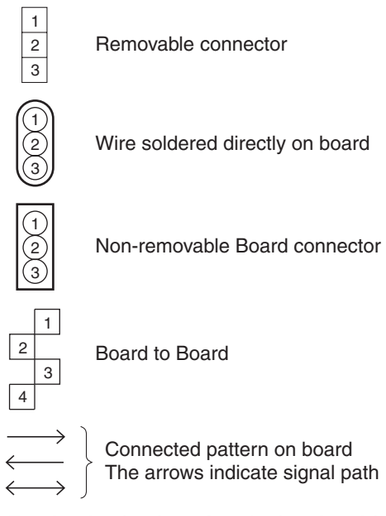
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{AUX}$ or AUX(L) : Active at low.

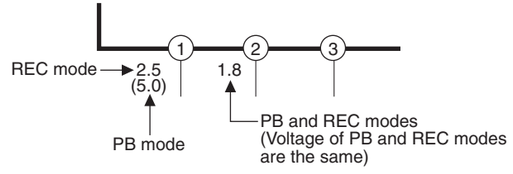
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.

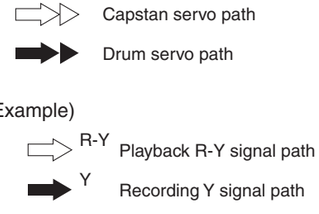


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

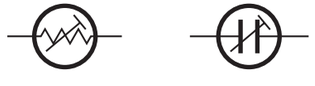
NOTE : The arrow is DVC unique object.



(Example)

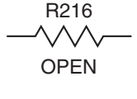
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

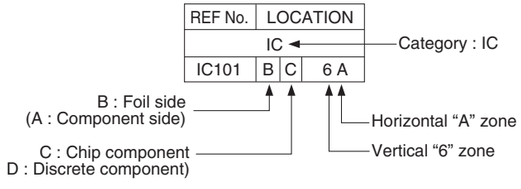
1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

rts location are indicated by guide scale on the circuit board.

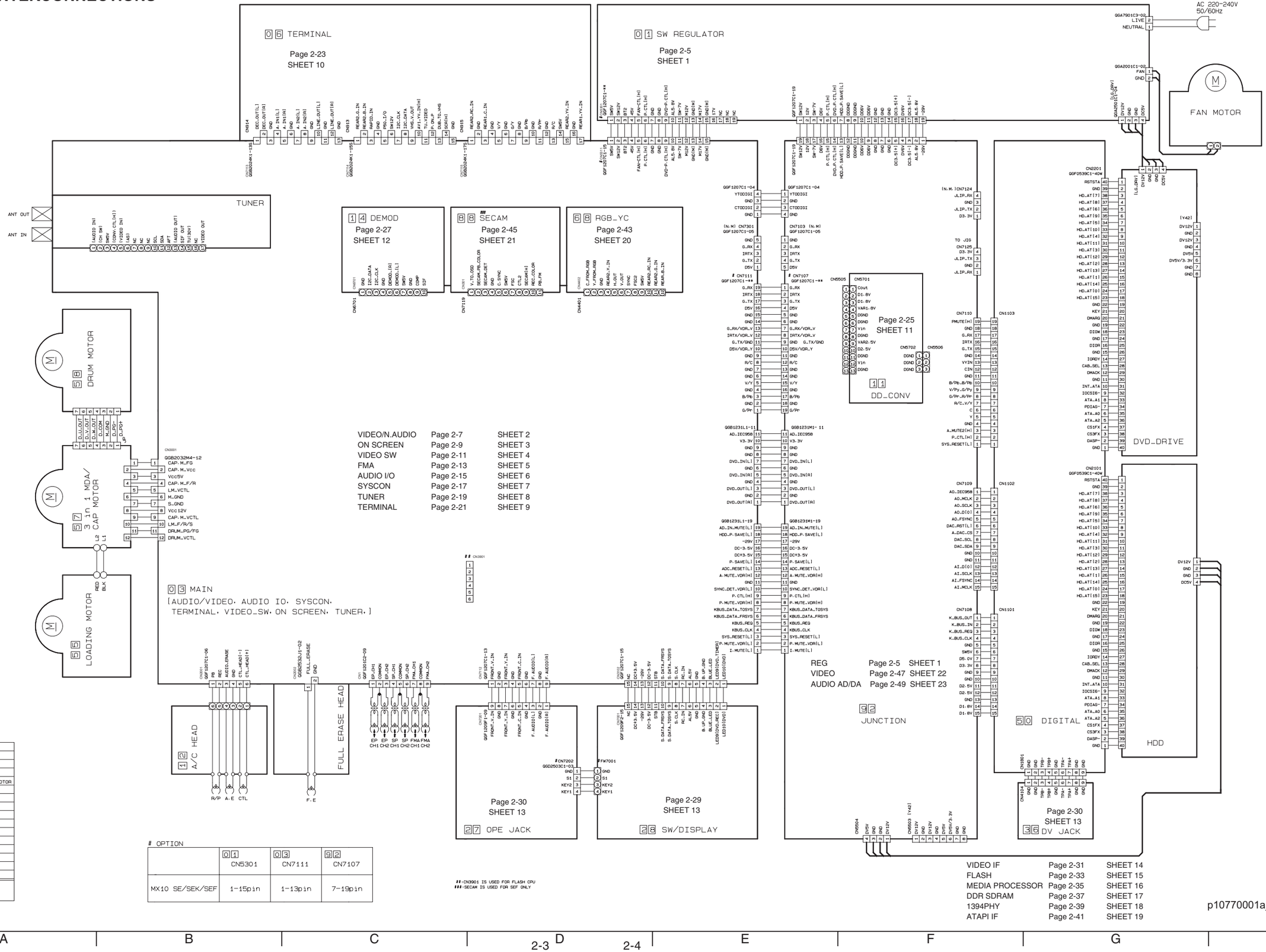
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

BOARD INTERCONNECTIONS



VIDEO/N.AUDIO	Page 2-7	SHEET 2
ON SCREEN	Page 2-9	SHEET 3
VIDEO SW	Page 2-11	SHEET 4
FMA	Page 2-13	SHEET 5
AUDIO I/O	Page 2-15	SHEET 6
SYSCON	Page 2-17	SHEET 7
TUNER	Page 2-19	SHEET 8
TERMINAL	Page 2-21	SHEET 9

REG	Page 2-5 SHEET 1
VIDEO	Page 2-47 SHEET 22
AUDIO AD/DA	Page 2-49 SHEET 23

VIDEO IF	Page 2-31 SHEET 14
FLASH	Page 2-33 SHEET 15
MEDIA PROCESSOR	Page 2-35 SHEET 16
DDR SDRAM	Page 2-37 SHEET 17
1394PHY	Page 2-39 SHEET 18
ATAPI IF	Page 2-41 SHEET 19

NO	NAME
92	JUNCTION
88	SECAM
68	RGB_YC
58	DRUM MOTOR
57	3 in 1 MDA/CAP MOTOR
55	LOADING MOTOR
36	DV JACK
28	DISP/SW
27	OPE/JACK
14	DEMOD
12	A/C HEAD
11	DD CONV.
06	TERMINAL
03	MAIN
02	DIGITAL
01	SW REGULATOR

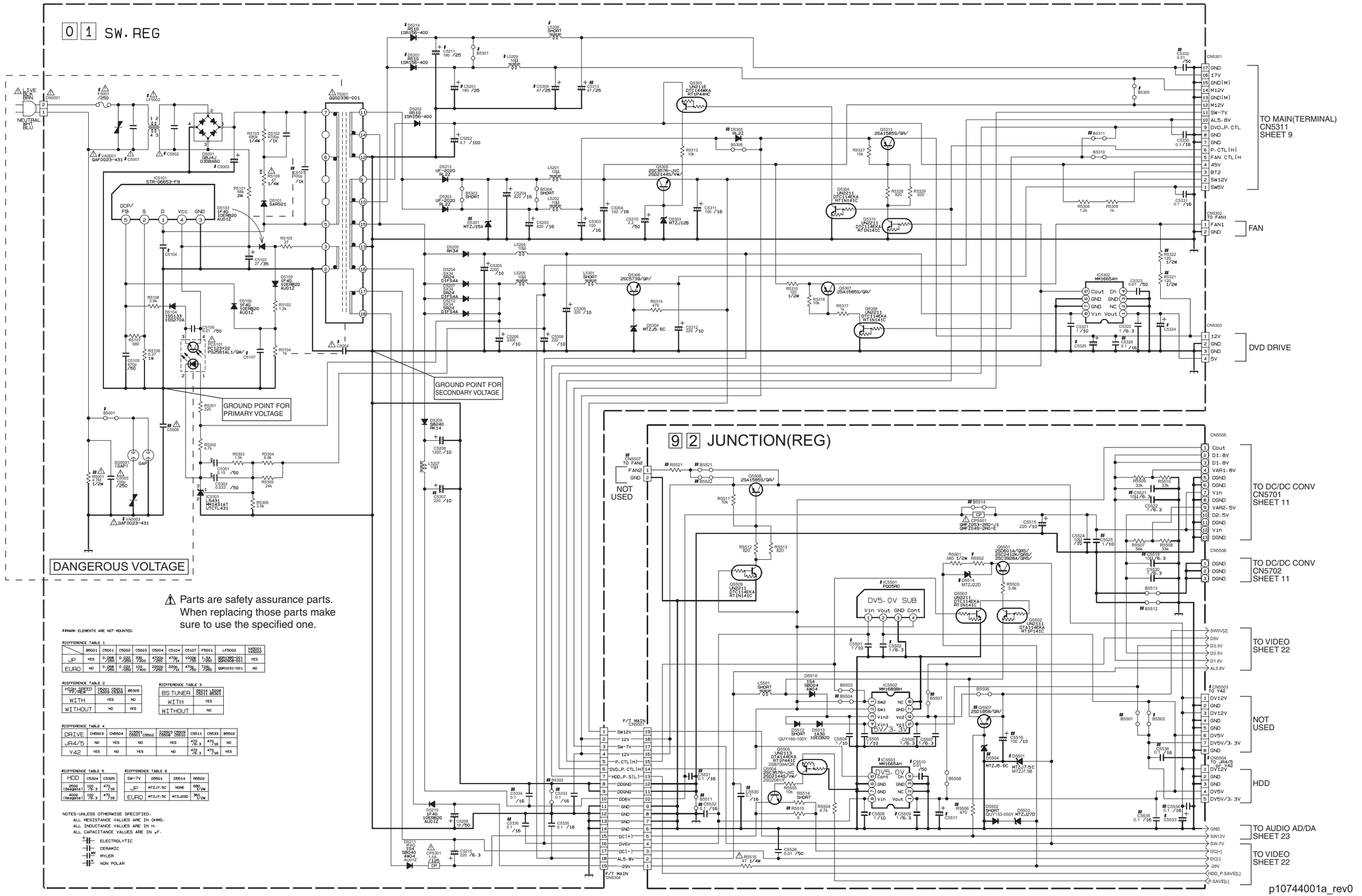
OPTION

	01 CN5301	03 CN7111	92 CN7107
MX10 SE/SEK/SEF	1-15pin	1-13pin	7-19pin

##:CN3901 IS USED FOR FLASH CPU
###:SECAM IS USED FOR SEF ONLY

p10770001a_rev0

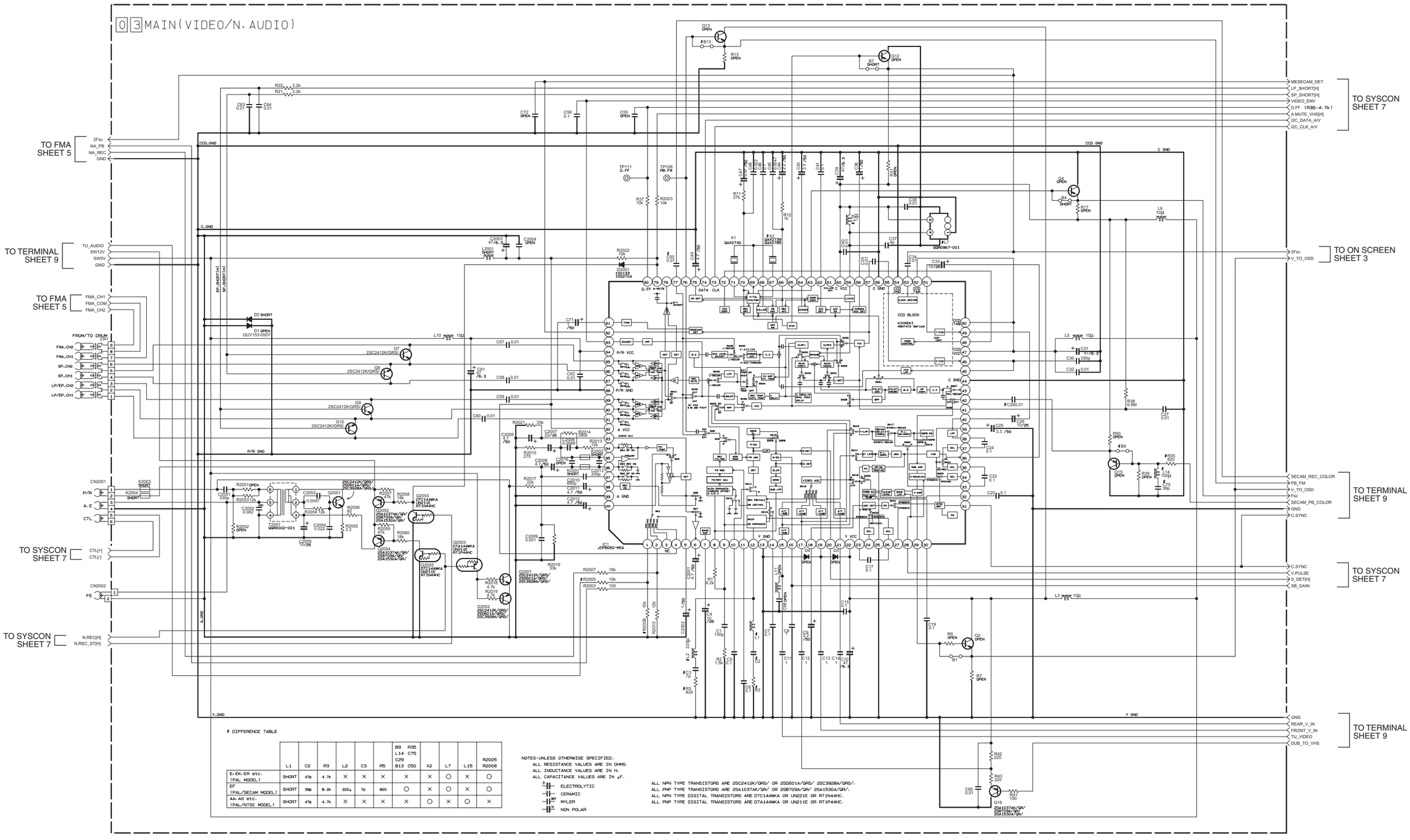
■ SW REG AND JUNCTION(REG) SCHEMATIC DIAGRAM



A B C D E F G

2-5 2-6

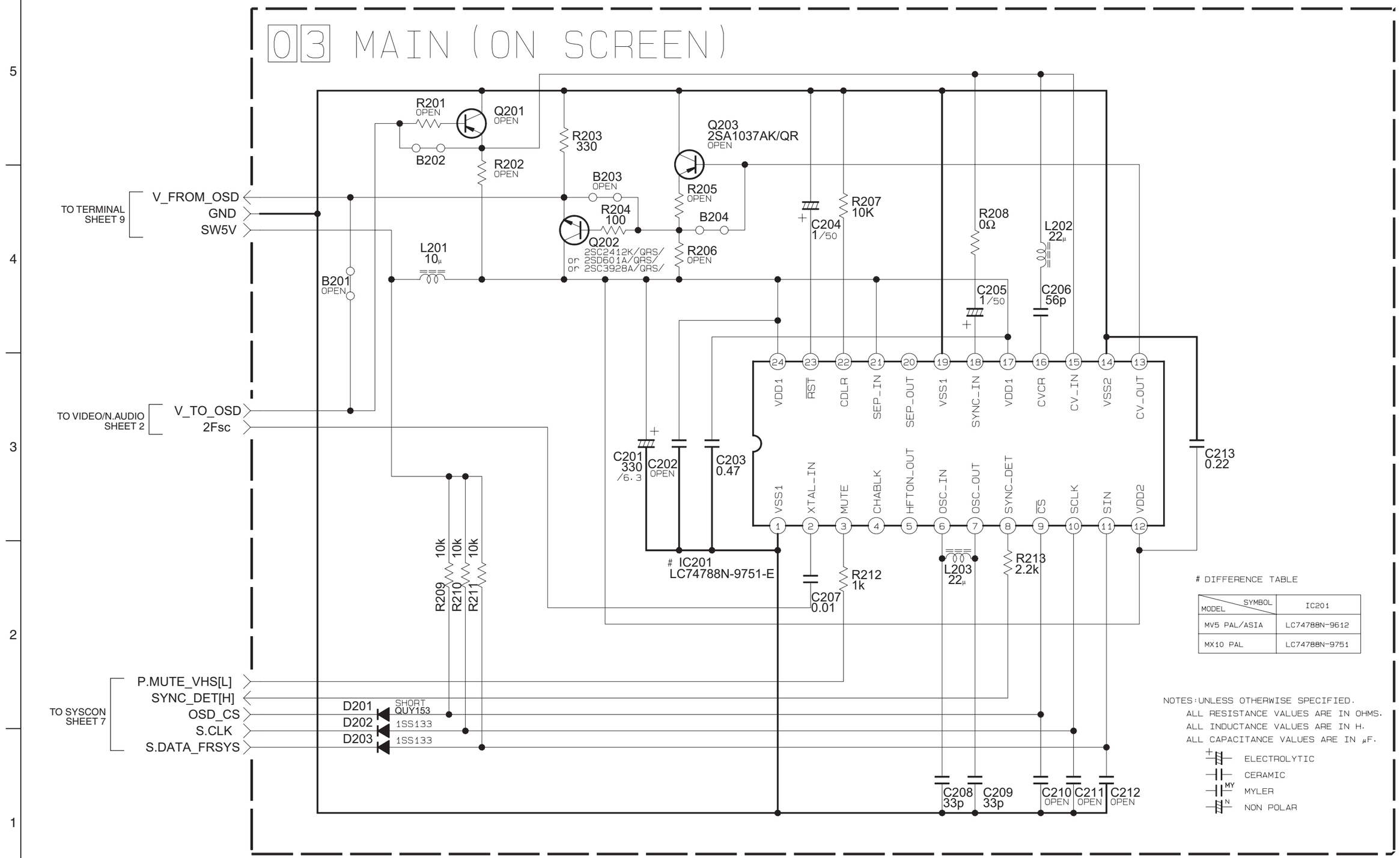
■ MAIN(VIDEO/N.AUDIO) SCHEMATIC DIAGRAM



p10771001a_rev0

SHEET 2

■ MAIN(ON SCREEN) SCHEMATIC DIAGRAM



DIFFERENCE TABLE

MODEL \ SYMBOL	IC201
MV5 PAL/ASIA	LC74788N-9612
MX10 PAL	LC74788N-9751

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p30145001a_rev0

SHEET 3

■ MAIN(VIDEO SW) SCHEMATIC DIAGRAM

0 3 MAIN(VIDEO SW)

DIFFERENCE TABLE

	R520	R521	C503 R502 C505 R505 C514 R508 C517 R509 C526	B503	B504	## MARK	### MARK
MV5 E·EK·ER·EF MODEL	1.8k	1k	O	O	×	O	×
MX10 E·EK·ER MODEL	×	0Ω	O	O	×	O	×
MX10 EF MODEL	×	0Ω	O	O	×	O	O
MV5 ASIA MODEL	1.8k	1k	×	×	O	×	×

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

ALL NPN TYPE TRANSISTORS ARE 2SC2412K/QRS/ OR 2SD601A/QRS/ 2SC3928A/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/QR/ OR 2SB709A/QR/ 2SA1530A/QR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WKA OR UN221E OR RT1N44HC.
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WKA OR UN211E OR RT1P44HC.

INPUT	V	Y/C
1	FRONT	FRONT
2	VHS	RGB_Y/C (EU)
3	REAR2 (EU)	REAR2 (EU)
4	REAR1	REAR1
5	TUNER	X

TO JUNCTION (VIDEO) CN7123 SHEET 22

CN501: Y_TO_DIGI, GND, C_TO_DIGI, GND

TO RGB YC CN4402 SHEET 20

CN4401: C_FROM_RGB, Y_FROM_RGB, GND, REAR2_Y_IN, H_OUT, V_OUT, SYNC, FSC2, SW5V, REAR2_RC_IN, REAR2_G_IN, REAR2_B_IN

TO SYSCON SHEET 7

I2C_CLK_A/V, I2C_DATA_A/V, RGB_IN[H], SYNC_DET_VDR[H], I2C_CLK, I2C_DATA, SECAM_DET.VDR[H], SEPA_IN[L]

TO TERMINAL SHEET 9

SW5V, REAR2_B_IN, REAR2_G_IN, Fsc, TU_VIDEO, V_FROM_OSD, GND, FRONT_V_IN, FRONT_C_IN, FRONT_Y_IN, GND, REAR1_C_IN, REAR2_RC_IN, GND, REAR1_YV/L-1_Y, GND, REAR2_YV/L-1_V

IC501 BH7623KS2 VIDEO SW

IC4201 LC74793 VPS/PDC SLICER

IC4202 MM1504XN VIDEO SW

IC4301 LA7357M SECAM DETECT

IC4304 74HC4538D

D4301 1SS133

Q4302 2SA1037AK/QR

Q4303 2SA1037AK/QR

Q4501 2SC2412K/QRS/

Q502 2SC2412K/QRS

Q503 2SA1037AK/QR/

D504 DTC144WKA

SEPA_IN[L]

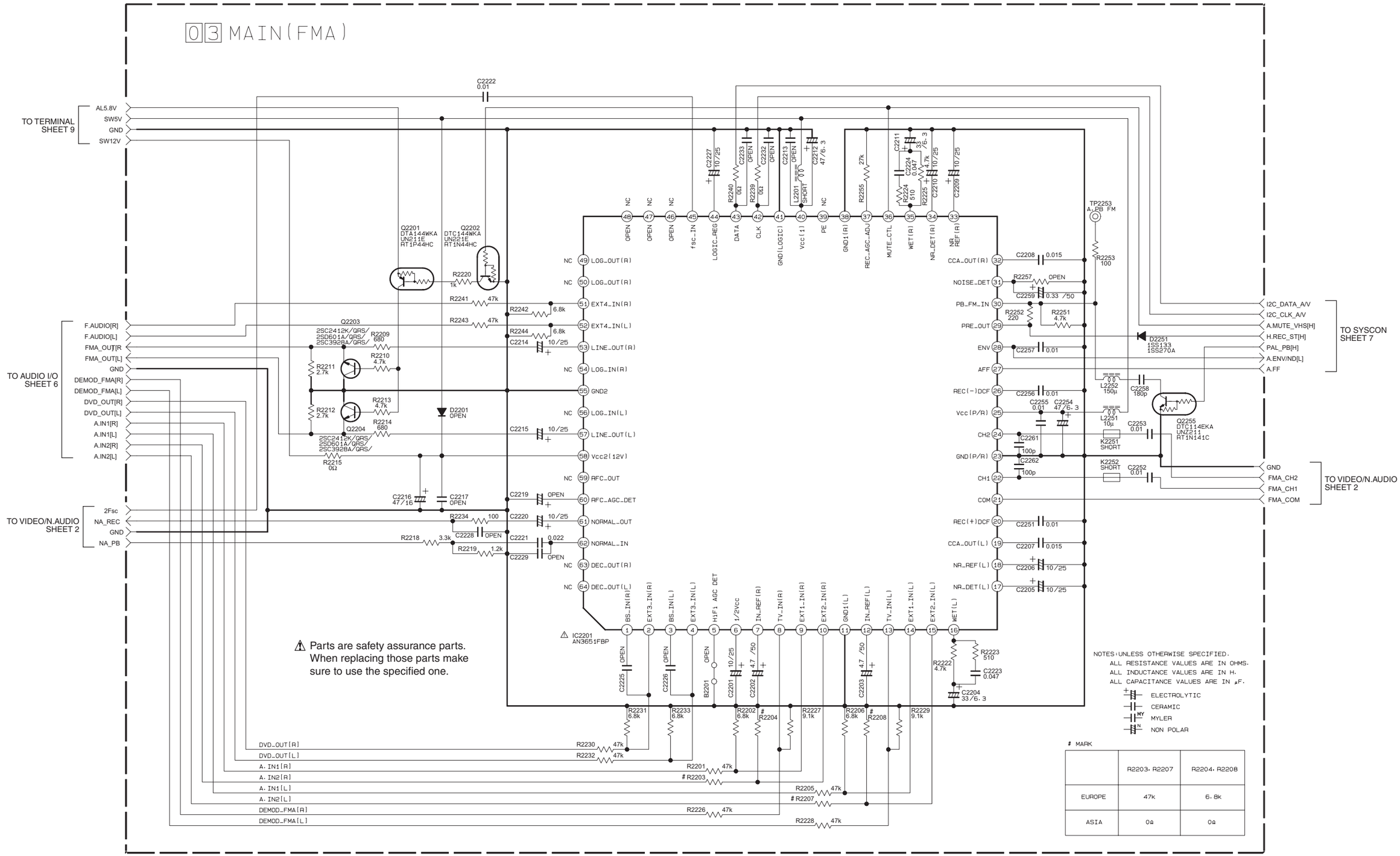
X'tal

p10772001a_rev0

SHEET 4

2-11 2-12

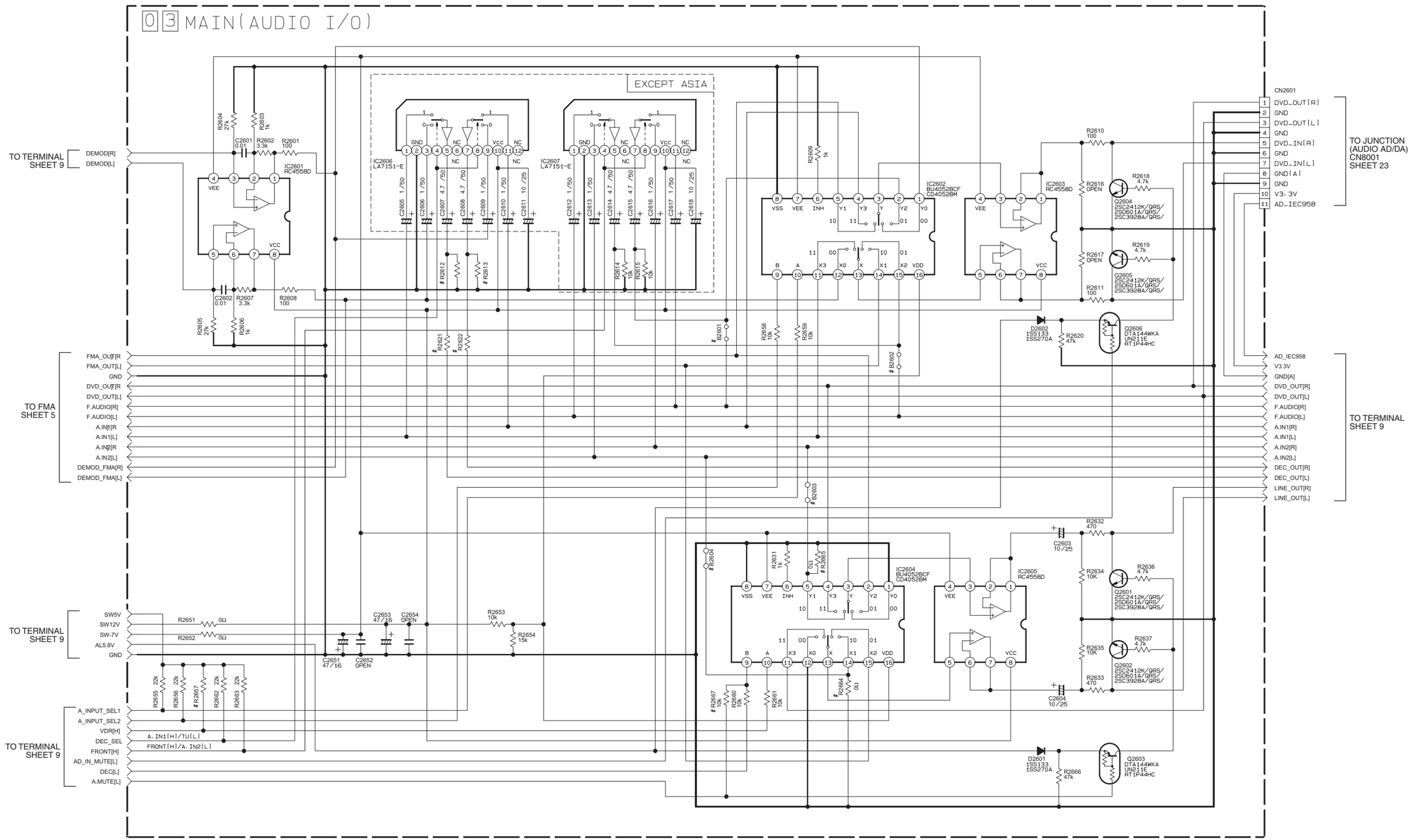
■ MAIN(FMA) SCHEMATIC DIAGRAM



p20493001a_rev0

SHEET 5

■ MAIN(AUDIO I/O) SCHEMATIC DIAGRAM



\# MARK

	B2601, B2602 R2664, R2665, R2667	B2603, B2604 R2660	R2657	R2612, R2613	R2621, R2622
EUROPE	NOT USE	USE	22k	10k	330
ASIA	USE	NOT USE	1k	0Ω	NOT USE

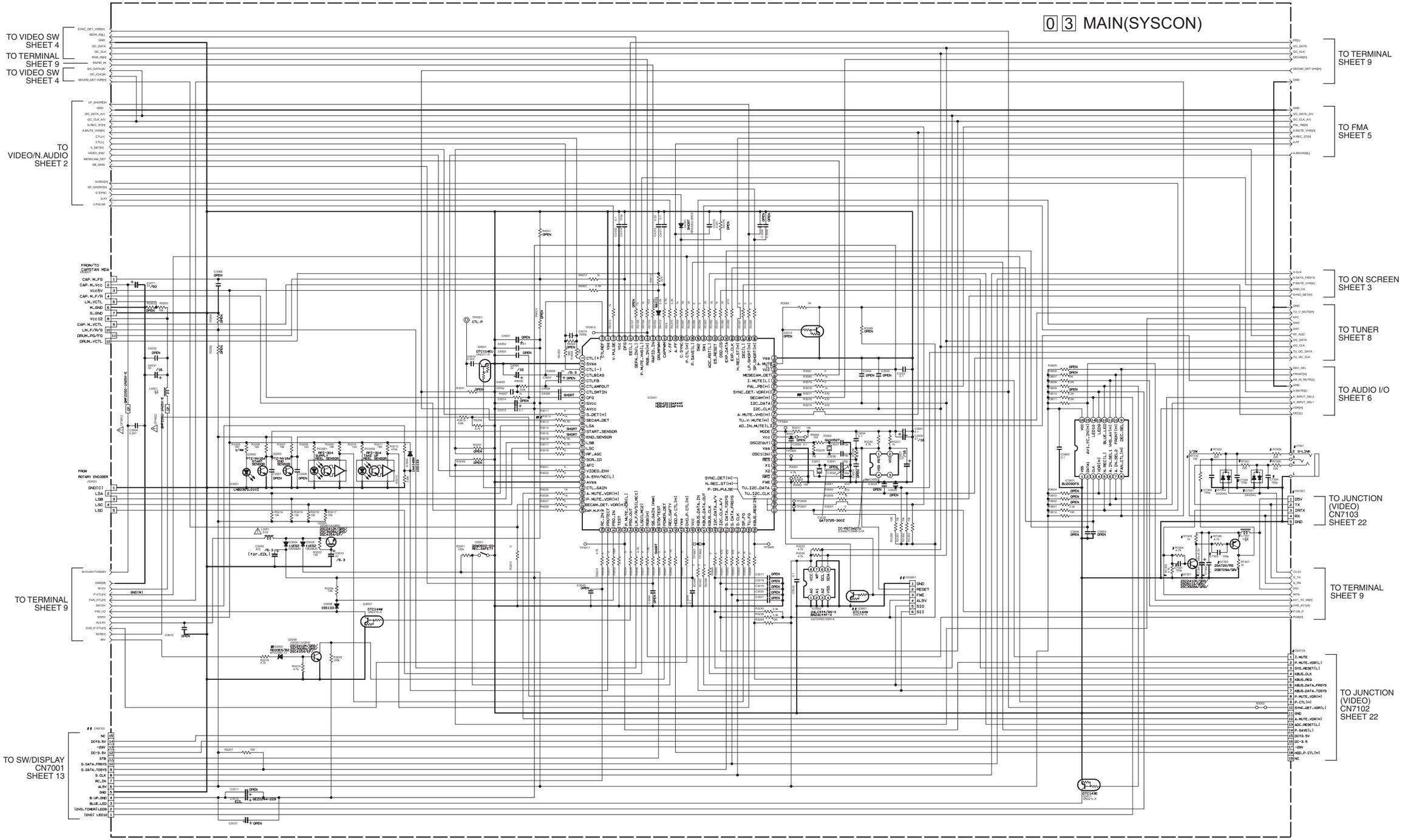
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20492001a_rev1

SHEET 6

■ MAIN(SYSCON) SCHEMATIC DIAGRAM



###:DIFFERENCE TABLE.

	R3012	R3077
DEF	○	○
OTHERS	×	×

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

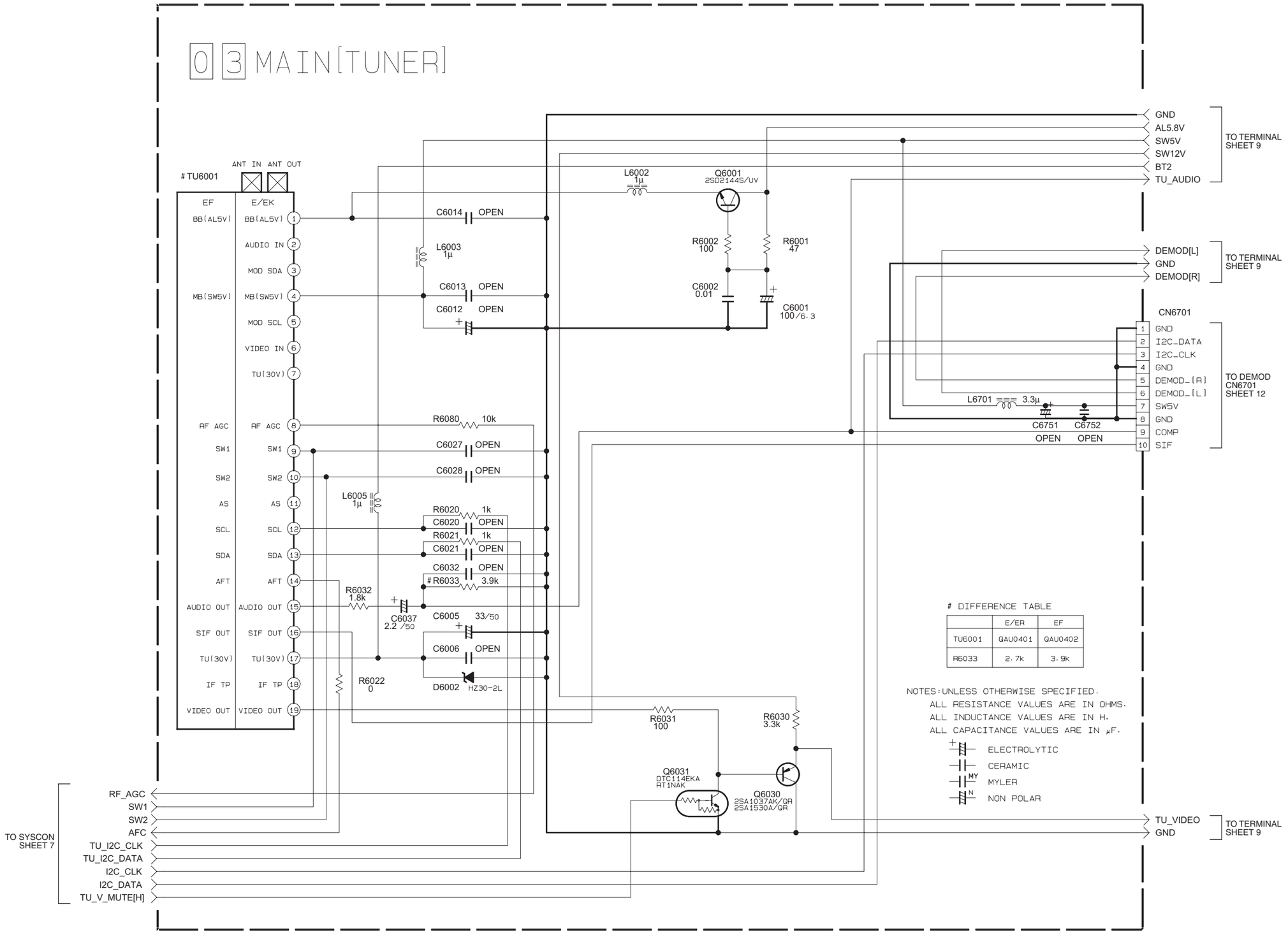
LAST NO		VACANT NO
R		
C		
D		
Q		
L		

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

p10750001a_rev0

SHEET 7

■ MAIN(TUNER) SCHEMATIC DIAGRAM



p20500001a_rev0

SHEET 8

■ MAIN(TERMINAL) SCHEMATIC DIAGRAM

TO AUDIO I/O SHEET 6

TO TERMINAL (I/O) CN914 SHEET 10

TO TERMINAL (I/O) CN913 SHEET 10

TO TERMINAL (I/O) CN915 SHEET 10

TO JUNCTION (VIDEO) CN7107 SHEET 22

TO SYSCON SHEET 7

TO VIDEO/N.AUDIO SHEET 2

TO VIDEO SW SHEET 4

TO ON SCREEN SHEET 3

TO TUNER SHEET 8

TO FMA SHEET 5

TO OPERATION/JACK CN7201 SHEET 13

TO SECAM CN301 SHEET 21

TO SYSCON SHEET 7

TO SW.REG CN5301 SHEET 1

TO SYSCON SHEET 7

COAXIAL OUT

# DIFFERENCE TABLE		B7101 B7102 B7103	B7106 B7111 B7107 B7113 B7108 B7114 B7109	B7104 B7105 B7110	B7112	L7101 IC7101 R7101 R7102	CN7111	CN7113	CN7114	CN7115	CN7119	B7503 B7504	B7505 B7506	B7121 B7124	B7122 B7123
MV5	E.EK.ER	×	×	○	○	○	1-11 PIN	1-13 PIN	1-15 PIN	1-17 PIN	×	○	×	○	×
	EF										○				
MX10	E.EK.ER	×	○	×	○	○	1-13 PIN	1-13 PIN	1-15 PIN	1-17 PIN	×	○	×	×	○
	EF										○				
MV5 ASIA		○	×	○	×	×	1-13 PIN	4-13 PIN	6-15 PIN	3-17 PIN	×	×	○	○	×

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

03 MAIN TERMINAL

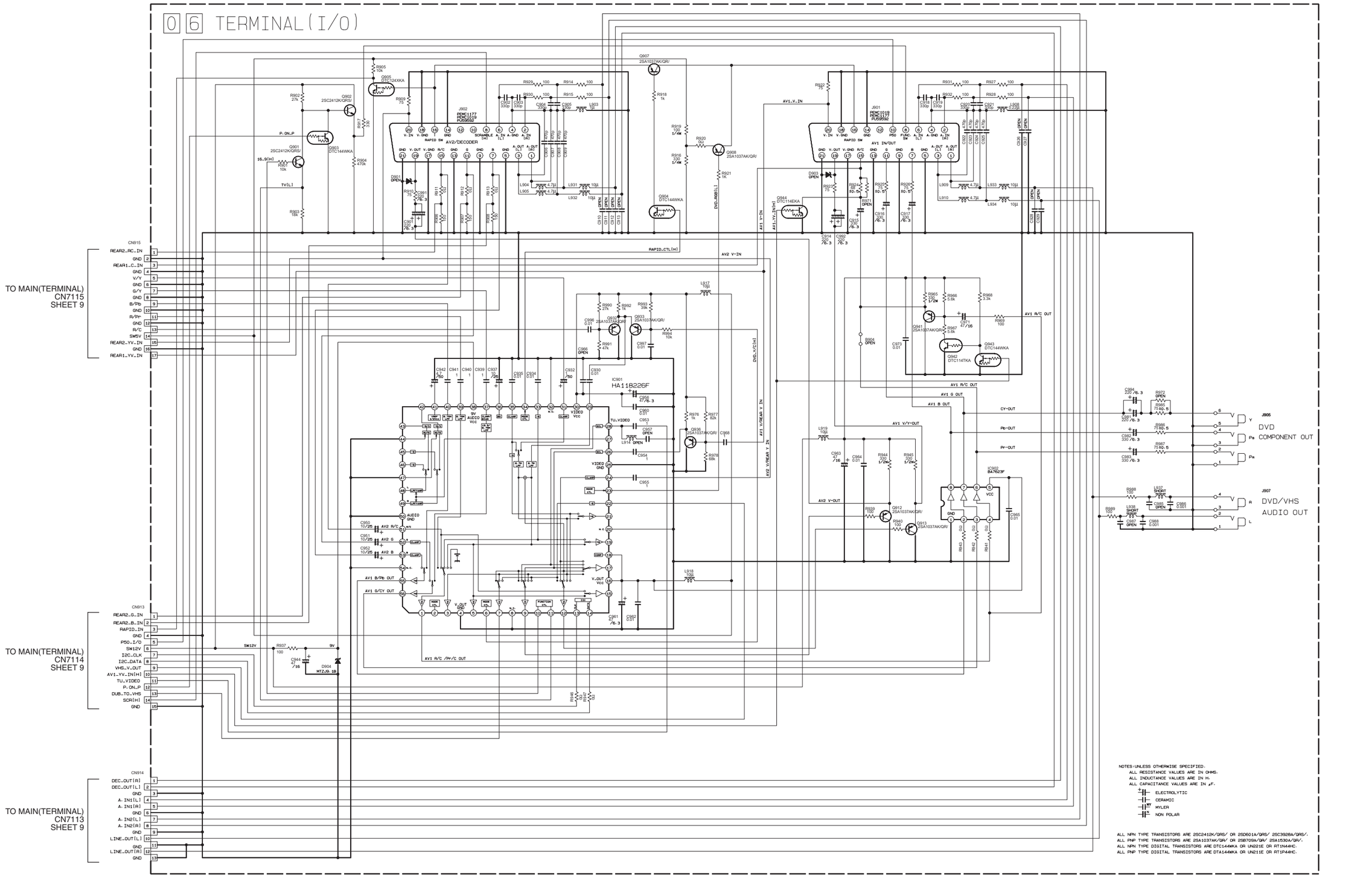
p10749001a_rev0

SHEET 9

2-21

2-22

■ TERMINAL(I/O) SCHEMATIC DIAGRAM


06 TERMINAL(I/O)
TO MAIN(TERMINAL) CN7115 SHEET 9
TO MAIN(TERMINAL) CN7114 SHEET 9
TO MAIN(TERMINAL) CN7113 SHEET 9
CN915
CN913
CN914
J902 RENC1177 RJP2049Z PJP2049Z
J901 RENC1019 RENC1177 PJP2049Z
AV2/DECODER
AV1 IN/OUT
IC901 HA118226F
IC902 BA7623F
J905 DVD COMPONENT OUT
J907 DVD/VHS AUDIO OUT
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR
ALL NPN TYPE TRANSISTORS ARE 2SC2412K/QR6/ OR 2SD601A/QR6/ 2SC3928A/QR6/.
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/GR/ OR 2SB709A/GR/ 2SA1530A/GR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WKA OR UN221E OR RT1N44HC.
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WKA OR UN211E OR RT1P44HC.

p10756001a_rev1

SHEET 10

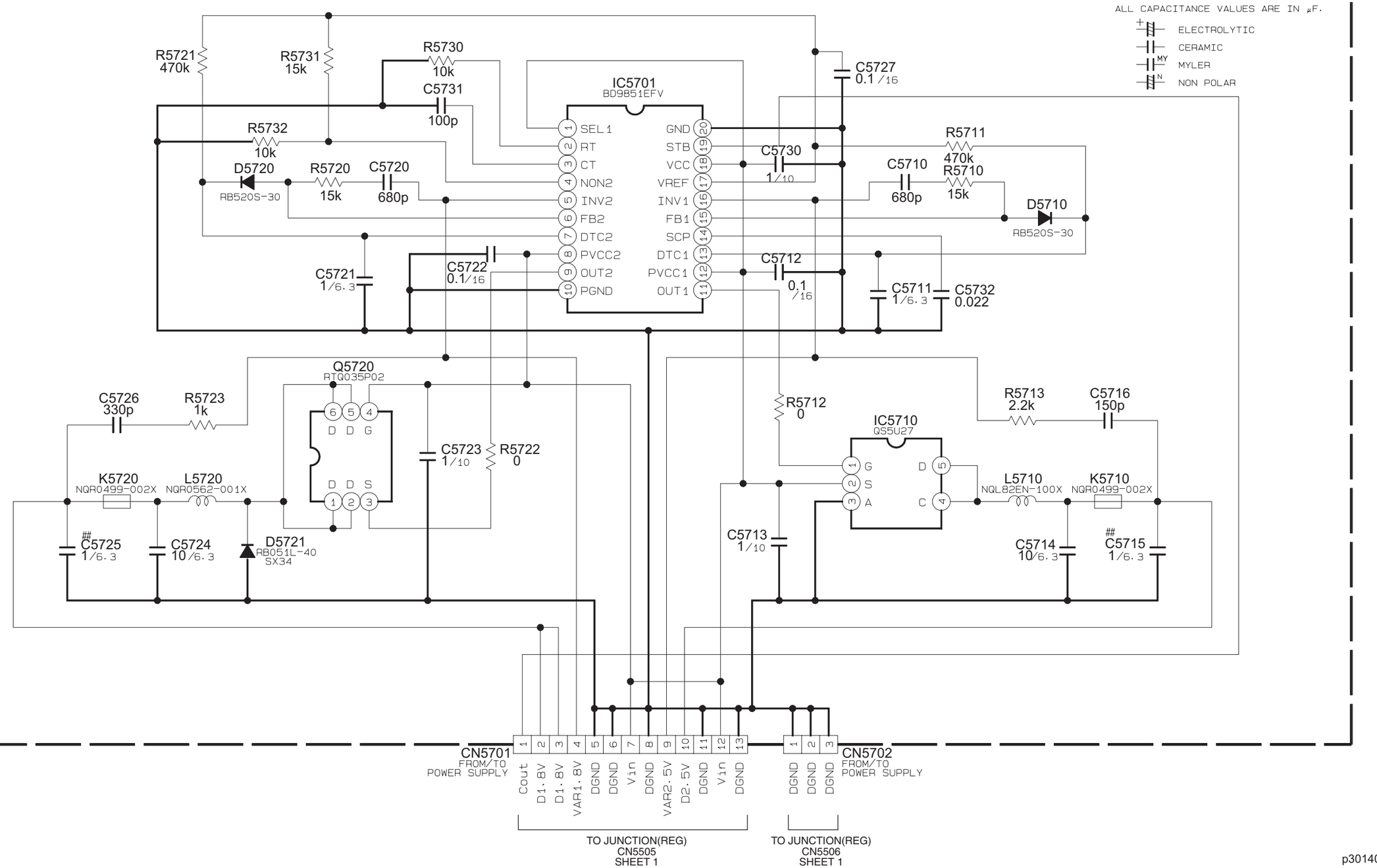
■ DC/DC CONV SCHEMATIC DIAGRAM

11 DC/DC CONV

##MARK ELEMENTS ARE NOT MOUNTED

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR



p30140001_rev0

SHEET 11

■ DEMOD SCHEMATIC DIAGRAM

14 DEMOD

CN6701
GND 1
I2C_DATA 2
I2C_CLK 3
GND 4
DEMOD_[R] 5
DEMOD_[L] 6
SW5V 7
GND 8
COMP 9
SIF 10

TO MAIN(TUNER) CN6701 SHEET 8

C6718 OPEN
R6716 47
K6706 600
C6719 10/16
R6720 5.6k
C6720 10/16
C6721 0.01
R6721 5.6k
C6722 OPEN
C6723 0.01
K6707 600
C6724 2.2/50
L6701 SHORT
R6704 1k
B6701
L6702 3.3μ
C6703
R6701 3.9k
C6701 0.01
Q6701 2SC3936/BC
R6703 47
C6704 0.01
C6705 0.001
R6702 6.8k
C6702 0.0022
R6705 270
R6706 150

R6715 12k
R6713 12k
C6716 0.0022
C6714 0.0022
B6702
B6703
C6717 OPEN
C6715 OPEN
R6714 1k
R6712 1k

IC6701
MSP3417GQGBBV3

33	32	31	30	29	28	27	26	25	24	23	34	35	36	37	38	39	40	41	42	43	44	22	21	20	19	18	17	16	15	14	13	12
AHVSUP	NC	SC1_OUT_L	SC1_OUT_R	VREF1	TP	DACM_L	DACM_R	VREF2	TP	TP	CAPL_M	AHVSS	AGNDC	NC	NC	NC	SC1_IN_L	SC1_IN_R	VREFTOP	MONO_IN	AVSS	RESETQ	TP	DVSS	DVSUP	TP	TP	TP	TP	TP	I2C_DA	I2C_CL

1	2	3	4	5	6	7	8	9	10	11
AVSUP	ANA_IN1+	ANA_IN-	TESTEN	XTAL_IN	XTAL_OUT	TP	D_CTR_OUT1	D_CTR_OUT0	ADR_SEL	STANDBYQ

K6701 600
K6702 600
C6706 OPEN
R6707 33
C6707 47p
A GND
D GND
X6701 18.432MHz
C6708 8p
C6709 8p
K6708 0
R6719 10k

R6711 100K
C6713 1
D6701 1SS133 1N4148M
R6710 0
K6705 600
C6712 OPEN
C6711 OPEN
R6709 1k
R6708 10k
C6710 OPEN

DIFFERENCE TABLE

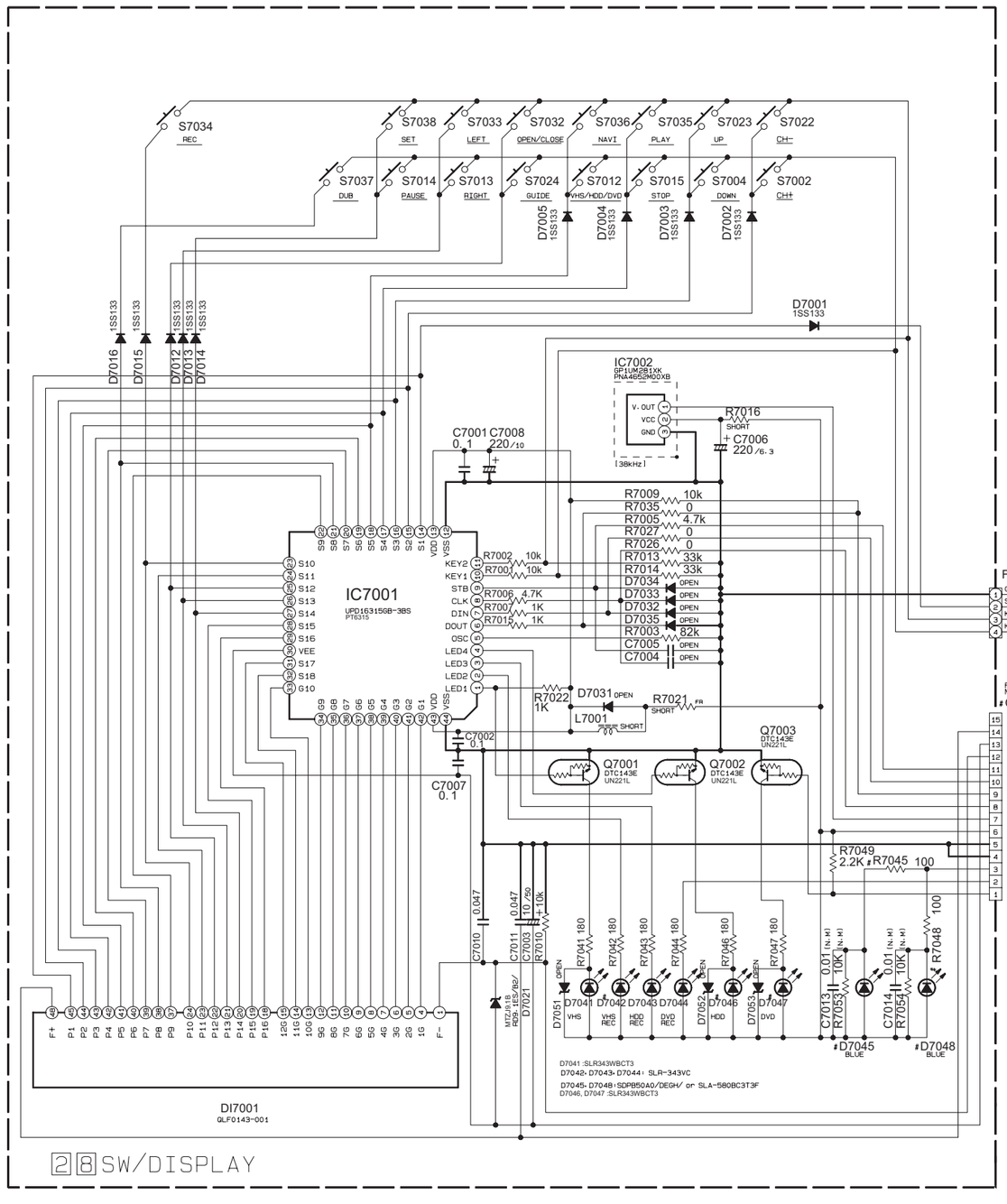
FUNCTION	SYMBOL	EZ/ER/EL/EY EU/EK/AA/AG	EF
PREAMP	R6701-R6704, R6705, R6706, C6701-C6703, C6705, L6702, Q6701	×	×
MONO IN	C6724, K6707	×	○

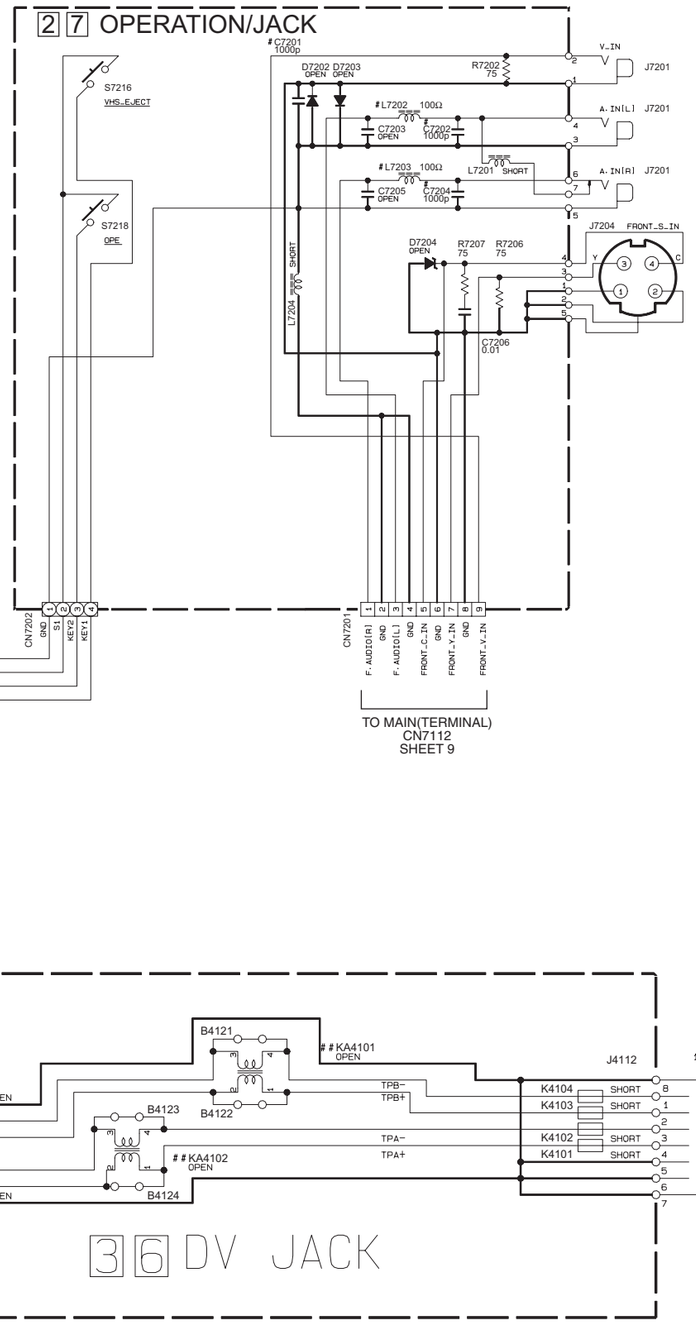
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

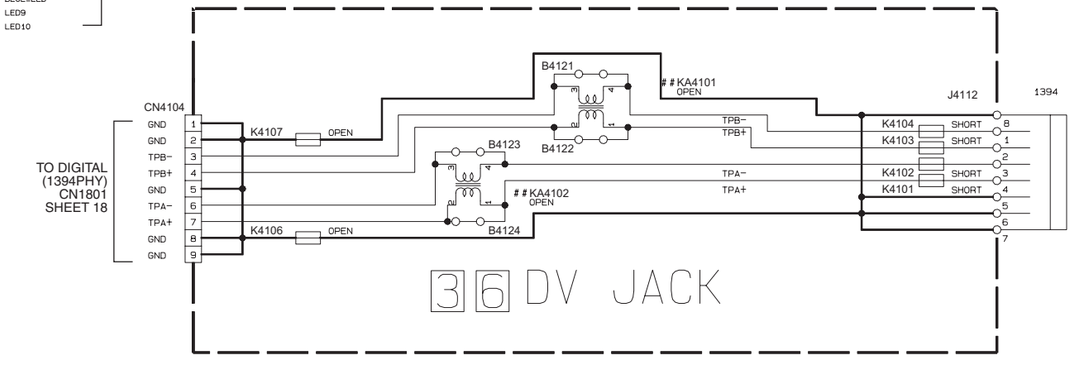
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20495001a_rev0

■ OPERATION/JACK , SWITCH/DISPLAY AND DV JACK SCHEMATIC DIAGRAM







# OPTION	D7041 D7046 D7047	D7045 D7048 R7045 R7048	C7201 C7202 C7204	L7202 L7203
JP	SLR343BCT3F	X	X	SHORT
PAL	SLR343WBCT3	○	○	100 ohm

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10752001a_rev0

SHEET 13

■ DIGITAL(VIDEO IF) SCHEMATIC DIAGRAM

5 0 DIGITAL(VIDEO IF)

	G1004-G1005 R1045-R1047-R1055-R1063
DOMMUS	×
EURO	○

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC

TO MEDIA PROCESSOR SHEET 16

TO JUNCTION (VIDEO) CN7108 SHEET 22

TO JUNCTION (VIDEO) CN7109 SHEET 22

TO MEDIA PROCESSOR SHEET 16

TO JUNCTION (VIDEO) CN7110 SHEET 22

TO MEDIA PROCESSOR SHEET 16

TO FLASH SHEET 15

TO MEDIA PROCESSOR SHEET 16

IC1001 JCP8059

IC1002 HY57V161610DTCB / HY5V161610DLCB / HY57V161610ETP7

p10759001a_rev0

SHEET 14

■ DIGITAL(FLASH ROM/EPG) SCHEMATIC DIAGRAM

5 0 DIGITAL(FLASH ROM/EPG)

	C1315	C1316	X1301
DOM	22p	18p	NAX0719-001X or NAX0789-001X
US/EU			NAX0733-001X

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
ELECTROLYTIC
CERAMIC

IC1201 MBL16TM90TN or MBV160T90PT — 64MBIT FLASH MEMORY

IC1203 SN74LVC373APW-X

IC1202 SN74LVC373APW-X

IC1301 TC90A73UG

IC1901 TVP5150A

to/from ELINK BOARD # CN1202

36	GND
35	UART2_CTS /MADD[22]
34	UART2_RX
33	UART2_TX
32	UART2_RTS /CS_L[0]
31	CS_L[1]
30	ALE
29	RST[L]
28	MADD[5]
27	MADD[4]
26	MADD[3]
25	MADD[2]
24	MADD[1]
23	MADD21 /MDT[15]
22	MADD20 /MDT[14]
21	MADD19 /MDT[13]
20	MADD18 /MDT[12]
19	MADD17 /MDT[11]
18	MADD16 /MDT[10]
17	MADD15 /MDT[9]
16	MADD14 /MDT[8]
15	GND
14	MADD13 /MDT[7]
13	MADD12 /MDT[6]
12	MADD11 /MDT[5]
11	MADD10 /MDT[4]
10	MADD9 /MDT[3]
9	MADD8 /MDT[2]
8	MADD7 /MDT[1]
7	MADD6 /MDT[0]
6	DTACK[L]/WAIT[L]
5	MEDUSA_INT[L]
4	OE[L]/LDS[L]
3	UWE[L]/UDS[L]
2	RD/WR[L]
1	GND

NOT USED

TO MEDIA PROCESSOR SHEET 16

TO VIDEO IF SHEET 14

p10760001a_rev0

SHEET 15

■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM

5 0 DIGITAL(MEDIA PROCESSOR)

TO VIDEO IF SHEET 14

TO 1394PHY SHEET 18

NOT USED

TO FLASH SHEET 15

TO VIDEO IF SHEET 14

NOT USED

TO 1394PHY SHEET 18

TO VIDEO IF SHEET 14

TO FLASH SHEET 15

TO VIDEO IF SHEET 14

TO DDR SDRAM SHEET 17

TO FLASH SHEET 15

TO ATAPI SHEET 19

TO DDR SDRAM SHEET 17

TO FLASH SHEET 15

TO 1394PHY SHEET 18

NOT USED

TO ATAPI IF SHEET 19

NOT USED

NOT USED

TO VIDEO IF SHEET 14

TO FLASH SHEET 15

NOT USED

	R1445-R1446 R1459-1461 R1450-1452
WITH HDMI	○
WITHOUT HDMI	×

	R1493
DR-MAX4	620
DR-MAX8	100

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC

p10757001a_rev0

SHEET 16

2-35 2-36

■ DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM

5 0 DIGITAL(DDR SDRAM)

IC1701	K1701 B1701	B1702
LP2996M-X	×	○
BD3533F-X	○	×

NOTES-UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC

TOP #1

TOP #2

BOTTOM #1

BOTTOM #2

TO MEDIA PROCESSOR SHEET 16

p10758001a_rev0

SHEET 17

■ DIGITAL(1394PHAY) SCHEMATIC DIAGRAM

5 0 DIGITAL(1394 PHY)

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC

C1806 10/6.3
C1813 0.1
K1801 NQR0339-001X
C1816 0.1
C1803 10/6.3
R1820 10k
C1810 0.1
K1803 SHORT
C1814 OPEN
C1805 0.1
C1809 12p
C1808 12p
X1801 NAX0551-001X or NAX0666-001X
24.576M
C1807 0.1
C1804 0.1

D3.V
PHY_RESET[L]
PHY_REQ
PHY_CLK
PHY_CNA
PHY_CTL0
PHY_CTL1
PHY_DATA[0-7]
PHY_LPS
PHY_LINK_ON
GND

TO MEDIA PROCESSOR SHEET 16

R1801 100
R1802 100

PHY_DATA0
PHY_DATA1
PHY_DATA2
PHY_DATA3
PHY_DATA4
PHY_DATA5
PHY_DATA6
PHY_DATA7

IC1801
TSB41AB2PAP
TSB41AB1PAP

DGND DGND DVDD DVDD XO XI PLLGND PLLGND PLLVDD NC NC RESET AVDD AVDD AGND AGND
LREQ SYSCLK CNA CTL0 CTL1 D0 D1 D2 D3 D4 D5 D6 D7 PD LPS NC
AGND TPBIAS1 TPA1+ TPA1− TPB1+ TPB1− AVDD R1 R0 AGND TPBIAS0 TPA0+ TPA0− TPB0+ TPB0− AGND
DGND DGND C/LKON PC0 PC1 PC2 TSO CPS DVDD DVDD TESTM BRIDGE TESTO AVDD AVDD AGND

C1815 0.1
R1819 750 ±0.5%
R1818 5.6k ±0.5%
T1801 NQR0568-001X
CN1801 QGB1231L2-09W
ZP809 ZP808 ZP807 ZP806 ZP805 ZP804 ZP803 ZP802 ZP801
GND GND TPA+ TPA− GND TPB+ TPB− GND GND
TO DV JACK CN4104 SHEET 13

R1805 OPEN
R1807 10k
R1806 OPEN
R1808 OPEN
R1809 10k
R1810 390k
C1811 0.1
R1811 OPEN
R1821 1k
C1812 0.1
R1813 56
R1814 56
C1801 1
R1815 56
R1816 56
C1802 270p
R1817 5.1k
RA1801 10k
RA1802 10k
R1803 10k
R1804 10k

p30141001a_rev0

■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM

5 0 DIGITAL(ATAPI IF)

TO MEDIA PROCESSOR SHEET 16

ATA2_RESET
ATA2_DAT[0-15]
ATA2_DMARQ
ATA2_DIOW[L]
ATA2_DIOR[L]
ATA2_IORDY
ATA2_DMAACK[L]
ATA2_INTRQ
ATA2_ADD[0-4]
D3.3V
GND

R2101 4.7k
R2102 10k
R2103 5.6k

R2104 33
R2105 82
R2106 22
R2107 22
R2108 82
R2109 22
R2110 82
R2111 33
R2112 33
R2113 33
R2114 33
R2115 33
R2116 OPEN

RA2101 33
RA2102 33
RA2103 33
RA2104 33

ATA2_DAT[7] K2101 NQR0022-002X
ATA2_DAT[8] K2102 NQR0022-002X
ATA2_DAT[6] K2103 NQR0022-002X
ATA2_DAT[9] K2104 NQR0022-002X
ATA2_DAT[5] K2105 NQR0022-002X
ATA2_DAT[10] K2106 NQR0022-002X
ATA2_DAT[4] K2107 NQR0022-002X
ATA2_DAT[11] K2108 NQR0022-002X
ATA2_DAT[3] K2109 NQR0022-002X
ATA2_DAT[12] K2110 NQR0022-002X
ATA2_DAT[2] K2111 NQR0022-002X
ATA2_DAT[13] K2112 NQR0022-002X
ATA2_DAT[1] K2113 NQR0022-002X
ATA2_DAT[14] K2114 NQR0022-002X
ATA2_DAT[0] K2115 NQR0022-002X
ATA2_DAT[15] K2116 NQR0022-002X

ATA2_ADD[1] K2117 NQR0022-002X
ATA2_ADD[0] K2118 NQR0022-002X
ATA2_ADD[2] K2119 NQR0022-002X
ATA2_ADD[3] K2120 NQR0022-002X
ATA2_ADD[4] K2121 NQR0022-002X

D2101 OPEN SML-010LT-X

CN2101 QGF0533F1-40X

ZP140	40	RSTATA	
ZP139	39	GND	
ZP138	38	HD_AT[7]	
ZP137	37	HD_AT[8]	
ZP136	36	HD_AT[6]	
ZP135	35	HD_AT[9]	
ZP134	34	HD_AT[5]	
ZP133	33	HD_AT[10]	
ZP132	32	HD_AT[4]	
ZP131	31	HD_AT[11]	
ZP130	30	HD_AT[3]	
ZP129	29	HD_AT[12]	
ZP128	28	HD_AT[2]	
ZP127	27	HD_AT[13]	
ZP126	26	HD_AT[1]	
ZP125	25	HD_AT[14]	
ZP124	24	HD_AT[0]	
ZP123	23	HD_AT[15]	
ZP122	22	GND	
ZP121	21		
ZP120	20	DMARQ	
ZP119	19	GND	
ZP118	18	DIOW	
ZP117	17	GND	
ZP116	16	DIOR	
ZP115	15	GND	
ZP114	14	IORDY	
ZP113	13	CAB_SEL	
ZP112	12	DMACK	
ZP111	11	GND	
ZP110	10	INT_ATA	
ZP109	9		
ZP108	8	ATA_A1	
ZP107	7		
ZP106	6	ATA_A0	
ZP105	5	ATA_A2	
ZP104	4	CS1FX	
ZP103	3	CS3FX	
ZP102	2		
ZP101	1	GND	

HDD

TO MEDIA PROCESSOR SHEET 16

ATA_RESET
ATA_DAT[0-15]
ATA_DMARQ
ATA_DIOW[L]
ATA_DIOR[L]
ATA_IORDY
ATA_DMAACK[L]
ATA_INTRQ
ATA_ADD[0-4]

R2203 4.7k
R2201 10k
R2202 5.6k

R2204 33
R2205 82
R2206 22
R2207 22
R2208 82
R2209 22
R2210 82
R2211 33
R2212 33
R2213 33
R2214 33
R2215 33
R2216 OPEN

RA2208 33
RA2209 33
RA2210 33
RA2211 33

ATA_DAT[7] K2201 NQR0022-002X
ATA_DAT[8] K2202 NQR0022-002X
ATA_DAT[6] K2203 NQR0022-002X
ATA_DAT[9] K2204 NQR0022-002X
ATA_DAT[5] K2205 NQR0022-002X
ATA_DAT[10] K2206 NQR0022-002X
ATA_DAT[4] K2207 NQR0022-002X
ATA_DAT[11] K2208 NQR0022-002X
ATA_DAT[3] K2209 NQR0022-002X
ATA_DAT[12] K2210 NQR0022-002X
ATA_DAT[2] K2211 NQR0022-002X
ATA_DAT[13] K2212 NQR0022-002X
ATA_DAT[1] K2213 NQR0022-002X
ATA_DAT[14] K2214 NQR0022-002X
ATA_DAT[0] K2215 NQR0022-002X
ATA_DAT[15] K2216 NQR0022-002X

ATA_ADD[1] K2217 NQR0022-002X
ATA_ADD[0] K2218 NQR0022-002X
ATA_ADD[2] K2219 NQR0022-002X
ATA_ADD[3] K2220 NQR0022-002X
ATA_ADD[4] K2221 NQR0022-002X

D2201 OPEN SML-010LT-X

CN2201 QGF0539C1-40W

ZP240	40	RSTATA	
ZP239	39	GND	
ZP238	38	HD_AT[7]	
ZP237	37	HD_AT[8]	
ZP236	36	HD_AT[6]	
ZP235	35	HD_AT[9]	
ZP234	34	HD_AT[5]	
ZP233	33	HD_AT[10]	
ZP232	32	HD_AT[4]	
ZP231	31	HD_AT[11]	
ZP230	30	HD_AT[3]	
ZP229	29	HD_AT[12]	
ZP228	28	HD_AT[2]	
ZP227	27	HD_AT[13]	
ZP226	26	HD_AT[1]	
ZP225	25	HD_AT[14]	
ZP224	24	HD_AT[0]	
ZP223	23	HD_AT[15]	
ZP222	22	GND	
ZP221	21		
ZP220	20	DMARQ	
ZP219	19	GND	
ZP218	18	DIOW	
ZP217	17	GND	
ZP216	16	DIOR	
ZP215	15	GND	
ZP214	14	IORDY	
ZP213	13	CAB_SEL	
ZP212	12	DMACK	
ZP211	11	GND	
ZP210	10	INT_ATA	
ZP209	9		
ZP208	8	ATA_A1	
ZP207	7		
ZP206	6	ATA_A0	
ZP205	5	ATA_A2	
ZP204	4	CS1FX	
ZP203	3	CS3FX	
ZP202	2		
ZP201	1	GND	

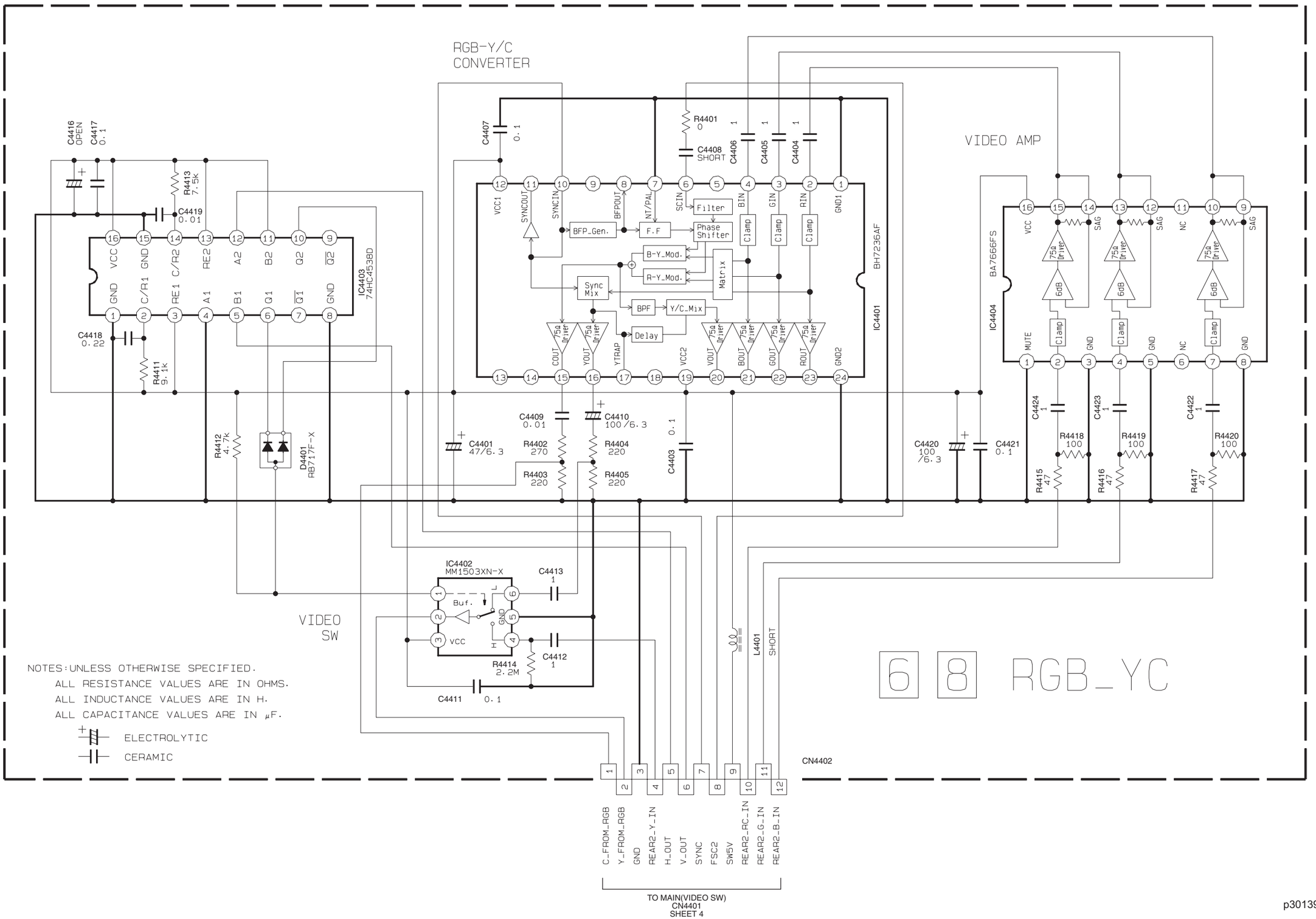
DVD DRIVE

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC

p20507001a_rev0

SHEET 19

■ RGB YC SCHEMATIC DIAGRAM



NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

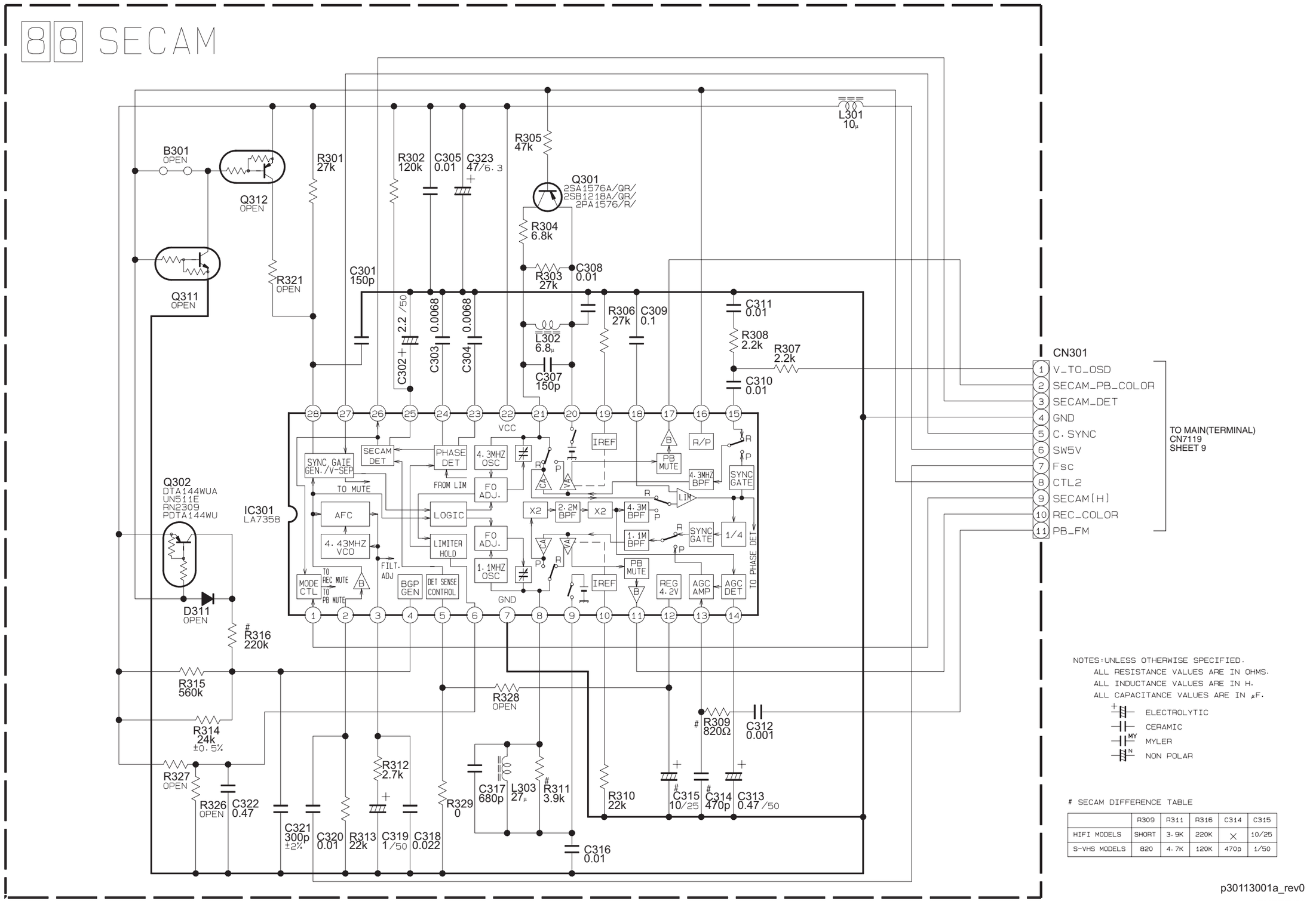
+ ELECTROLYTIC
CERAMIC

6 8 RGB_YC

p30139001a_rev0

SHEET 20

■ SECAM SCHEMATIC DIAGRAM [DR-MX10SEF ONLY]



NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

+ ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

SECAM DIFFERENCE TABLE

	R309	R311	R316	C314	C315
HIFI MODELS	SHORT	3.9K	220K	×	10/25
S-VHS MODELS	820	4.7K	120K	470p	1/50

p30113001a_rev0

SHEET 21

■ JUNCTION(VIDEO) SCHEMATIC DIAGRAM

TO AUDIO AD/DA SHEET 23
TO DIGITAL(VIDEO IF) CN1102 SHEET 14
TO DIGITAL(VIDEO IF) CN1103 SHEET 14
TO MAIN(VIDEO SW) CN501 SHEET 4
TO DIGITAL(VIDEO IF) CN1101 SHEET 14
TO AUDIO AD/DA SHEET 23

CN7109: A1_MCLK, A1_FCVNC, A1_SCLK, A1_DI[0], GND, DAC_SDA, DAC_SCL, A_DAC_CS, DAC_RST[L], AO_FSYNC, AO_DI[0], AO_SCLK, AO_MCLK, AO_IEC958
CN7110: P_MUTE[H], GND, G_RX, IRTX, G_TX, GND, V/Y IN, C IN, GND, B/Pb_B/Pb, V/PY_G/PY, G/Pr_R/Pr, R/C_V/Y, C, Y, GND, A_MUTE2[H], P_CTL[H], SYS_RESET[L]
CN7104: VTODIGI, GND, CTODIGI, GND
CN7106: D1.8V, D1.8V, GND, D2.5V, D2.5V, GND, GND, D3.3V, D5.0V, SW5V, GND, K_BUS_CLK, K_BUS_REQ, K_BUS_IN, K_BUS_OUT
GND, SW-7V, A.MUTE_VDR[H], ADC_RST[L], AO_IN_MUTE[L], AL5.8V

C7143 OPEN
K7101 0Ω
C7141 OPEN, R7161 0Ω, R7162 0Ω, C7142 OPEN
C7137 OPEN

	8059		E5	
	RGB	COMP	RGB	COMP
10PIN	B	Pb	B	Pb
9PIN	V	PY	G	PY
8PIN	G	Pr	R	Pr
7PIN	R	C	V	Y
6PIN	-V-	-V-	C	C
5PIN	-V-	-V-	-V-	-V-

C7133 OPEN, C7131 OPEN, C7132 OPEN, C7135 OPEN

B7115 OPEN, B7102, B7103, B7104, B7105
B7111, B7112 OPEN
Q7151 DTC144WKA UN221E RT1N44HC
R7152 10k

IC7101 BH7868FS
Pr, Pb, Y, C, Vcc, GND, MUTE2, MUTE1, Bias, Clamp, 75Ω DRIVE, 12MHz LPF, 6MHz LPF, 6dB, S-DOUT S1/S2, S2, S1

C7107 1
P.MUTEL
C7106 1
C7105 1
C7104 22/16
C7103
I.MUTEL
C7102 0.01
C7101 0.01
C7112 220/6.3

R7101 OPEN
C7123 OPEN, L7102 OPEN
C7124 OPEN
B7101
Q7101 OPEN
R7102 OPEN
B7113
B7114 OPEN
L7101 10μ

R7150 75, ### R7149 75, ### R7148 75, ### R7147 75, ### R7146 75, ### R7145 20, ### R7151 20
B7106
B7107, # B7108, # B7109, # B7110

CN7102
19 AD_IN_MUTE[L]
18 HDD_P.SAVE[L]
17 -29V
16 DC[-]
15 DC[+]
14 P.SAVE[L]
13 ADC_RST[L]
12 A.MUTE_VDR[H]
11 GND
10 SYNC_DET_VDR[L]
9 P_CTL[H]
8 P.MUTE_VDR[H]
7 K_BUS_IN_TO_SYS
6 K_BUS_OUT_FR_SYS
5 K_BUS_REQ
4 K_BUS_CLK
3 SYS_RESET[L]
2 P.MUTE_VDR[L]
1 I.MUTE[L]
→ TO MAIN(SYSCON) CN3103 SHEET 7

P.SAVE[L], HDD_P.SAVE[L] → TO REG SHEET 1
D1.8V, GND, D2.5V, D3.3V, GND, D5V → TO REG SHEET 1 / TO AUDIO AD/DA SHEET 21
GND, SW5V[2], GND, SW-7V, DC[+], DC[-], -29V, AL5.8V → TO REG SHEET 1

92 JUNCTION(VIDEO)

CN7107: G/Pr, GND, B/Pb, GND, V/Y, GND, GND, R/C, GND, DSV/VDR_V, G_TX/GND, IRTX/VDR_V, G_RX/VDR_V, GND, GND, DSV, G_TX, IRTX, G_RX
→ MAIN(TERMINAL) CN7111 SHEET 9

G-LINK CN7103 OPEN: DSV, G_TX, IRTX, G_RX, GND
→ MAIN(SYSCON) CN7301 SHEET 7

FROM/TO RS232C CN7124 OPEN: D3.3V, JLIP_TX, GND, JLIP_RX → NOT USED
FROM/TO JIG CN7125: D3.3V, JLIP_TX, GND, JLIP_RX → NOT USED

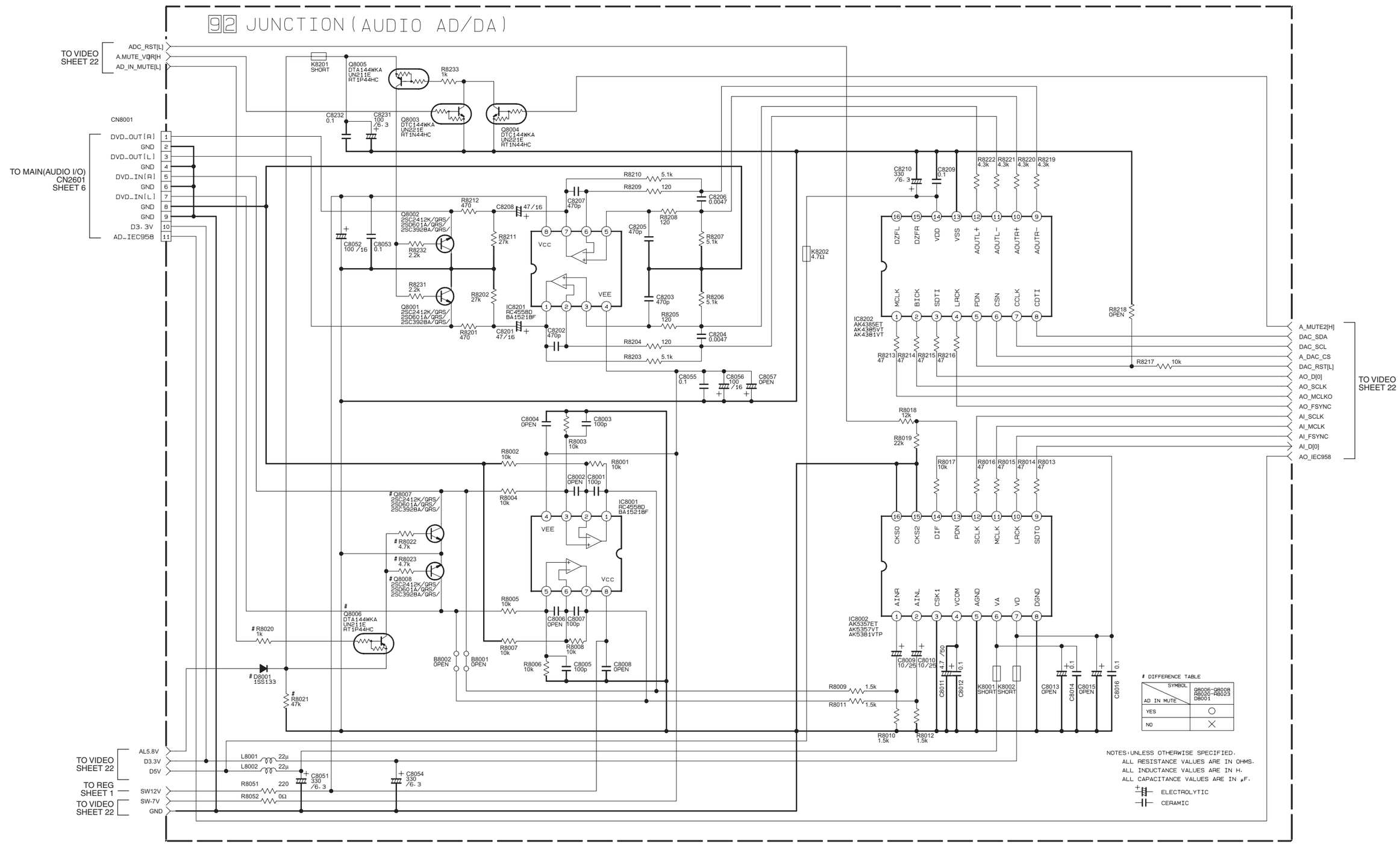
DIFFERENCE TABLE [#.##.### SYMBOLS]

	## SYMBOLS	# SYNBOLS	R7146	R7147	R7148-R7150	CN7107
DOM	○	×	75	75	20	7-19 PIN
PAL	×	○	×	0Ω	0Ω	7-19 PIN

p20506001a_rev0

SHEET 22

■ JUNCTION(AUDIO AD/DA) SCHEMATIC DIAGRAM

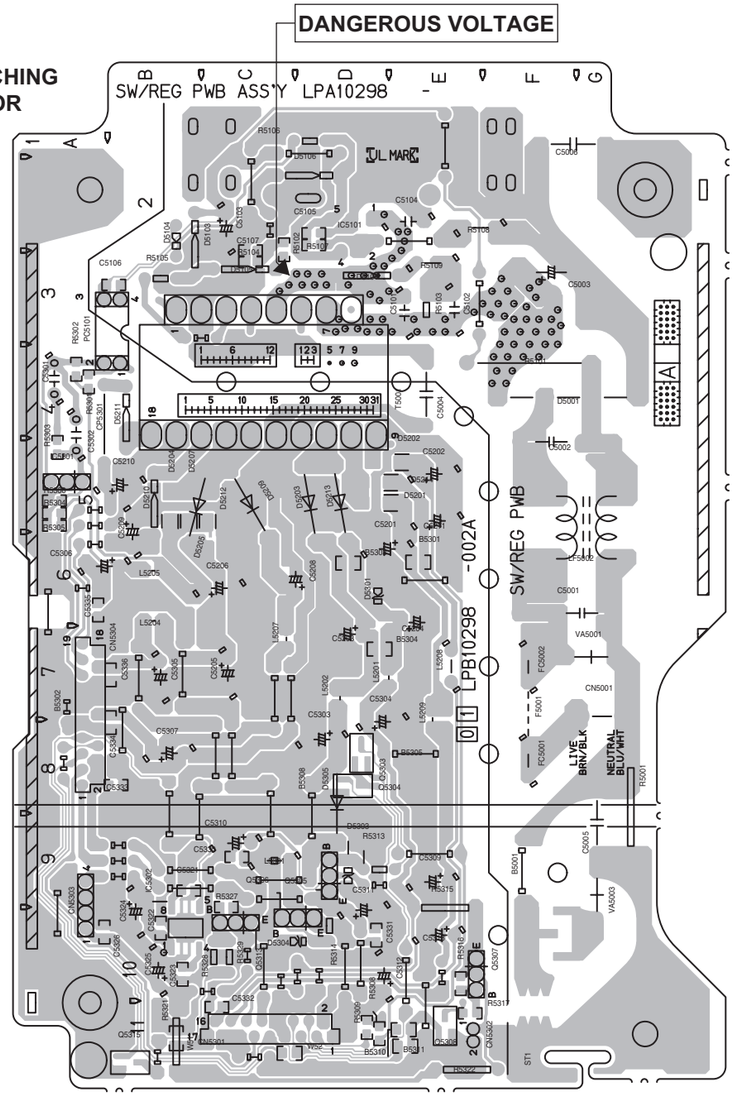


p20503001a_rev0

SHEET 23

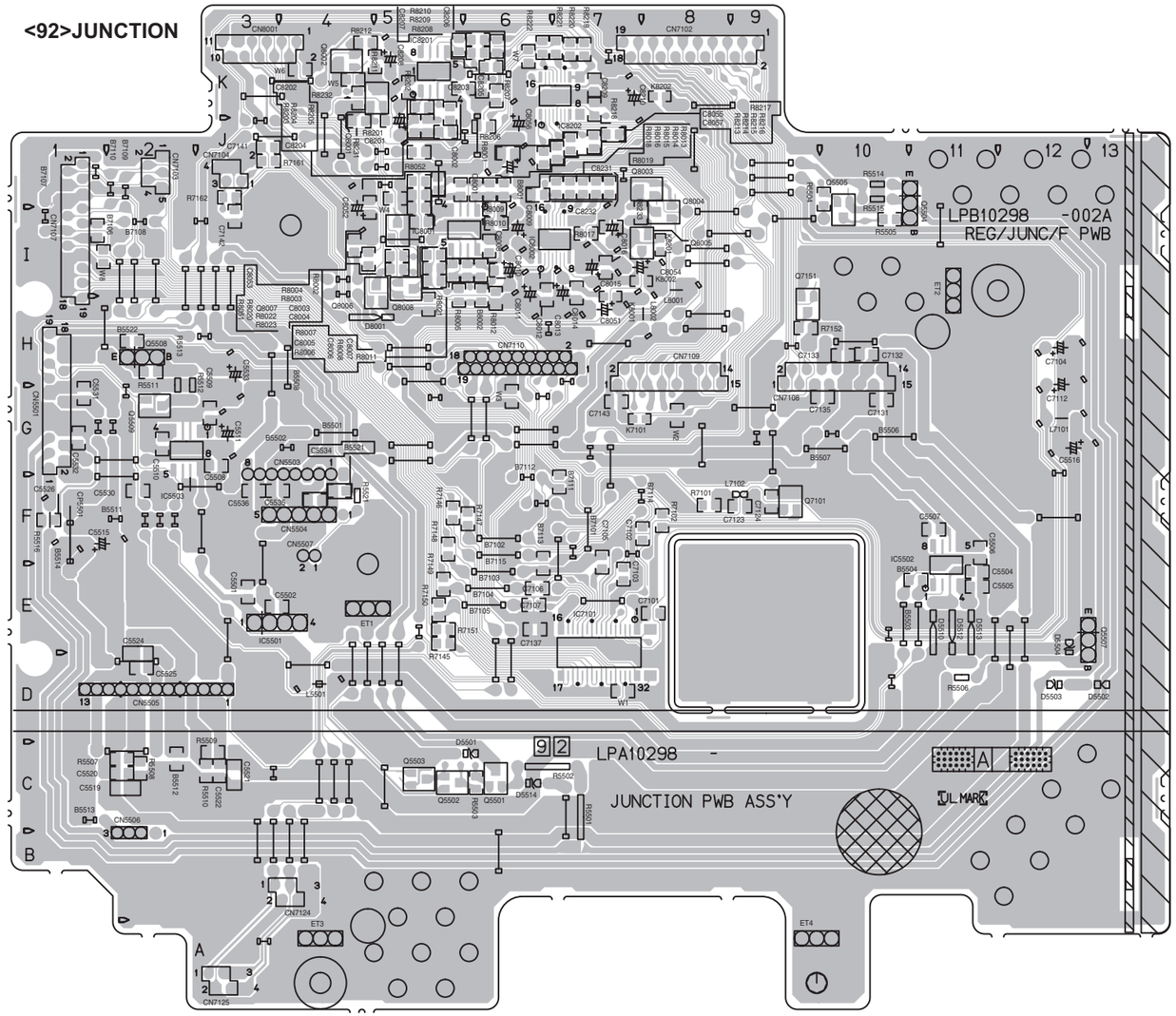
■ SWITCHING REGULATOR CIRCUIT BOARD

<01>SWITCHING REGULATOR



■ JUNCTION CIRCUIT BOARD

<92>JUNCTION



COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR>

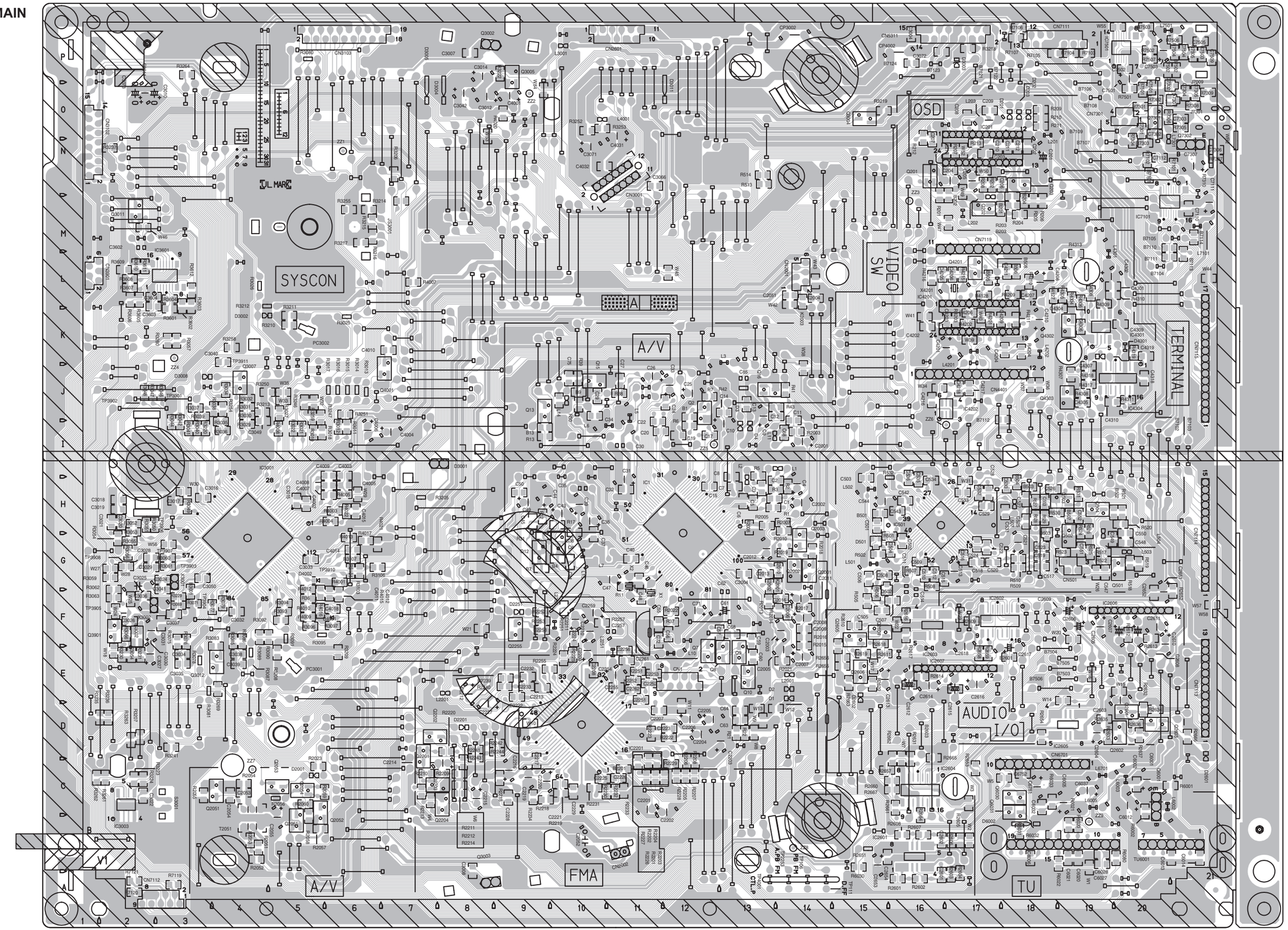
REF.NO.	LOCATION
CAPACITOR	
C5001	A D 6G
C5002	A D 5F
C5003	A D 3F
C5004	A D 4E
C5005	A D 8G
C5006	A D 1F
C5101	A D 3E
C5102	A D 3E
C5103	A D 2C
C5104	A D 2E
C5105	B C 2D
C5106	B C 3B
C5107	B C 3C
C5201	A D 6E
C5202	A D 5E
C5203	A D 7D
C5204	A D 6E
C5205	A D 7C
C5206	A D 6C
C5208	A D 6D
C5209	A D 5B
C5210	A D 5A
C5211	A D 5E
C5301	A D 4A
C5302	A D 4A
C5303	A D 8D
C5304	A D 8D
C5305	A D 7B
C5306	A D 6B
C5307	A D 8B
C5309	A D 9E
C5310	A D 9C
C5311	A D 10D
C5312	A D 10D
C5313	A D 10E
C5321	B C 9B
C5322	B C 10B
C5323	B C 10B
C5324	A D 9B
C5325	A D 10B
C5326	B C 10A
C5330	B C 9C
C5331	B C 10D
C5332	B C 11C
C5333	B C 8B
C5334	B C 8B
C5335	B C 6A
C5336	B C 7B
CONNECTOR	
CN5001	A D 7G
CN5301	A D 11D
CN5302	A D 11E
CN5303	A D 10A
CN5304	A D 8A
DIODE	
D5001	A D 4F
D5101	A D 3D
D5103	A D 3B
D5104	A D 2B
D5105	A D 3C
D5106	A D 2C
D5201	B C 5D
D5202	B C 5D
D5203	A D 5D
D5204	B C 5B
D5205	A D 5C
D5207	B C 5B
D5209	A D 5C
D5210	A D 6B
D5211	A D 5B
D5212	B C 5C
D5213	A D 5D
D5214	B C 5D
D5301	A D 6D
D5303	A D 9D
D5304	A D 10C
D5305	A D 8D
FUSE	
F5001	A D 8F
IC	
IC5101	A D 2D
IC5301	A D 5A
IC5302	B C 10B
COIL	
L5201	A D 7D
L5202	A D 7D
L5204	A D 6B
L5205	A D 6B
L5207	A D 7C
L5208	A D 7E
L5209	A D 7E
L5301	A D 9C
TRANSISTOR	
Q5303	B C 8D
Q5304	B C 8D
Q5305	A D 9D
Q5306	A D 10D
Q5307	A D 10E
Q5308	B C 11E
Q5313	A D 10C
Q5315	B C 11B
RESISTOR	
R5001	A D 8G
R5101	A D 4E
R5102	B C 2C
R5103	A D 3E
R5104	B C 3C
R5105	A D 3B
R5106	A D 3C
R5108	A D 2E
R5109	A D 3E
R5301	B C 4A
R5302	B C 4A
R5303	B C 5A
R5304	B C 5A
R5305	B C 5A
R5306	B C 5A
R5308	B C 11D
R5309	B C 11D
R5313	A D 9D
R5314	A D 10D
R5315	A D 10E
R5316	B C 10E
R5317	B C 11E
R5321	A D 11B
R5322	A D 11E
R5327	B C 10C
R5328	A D 10C
R5329	A D 10C
OTHER	
CP5301	A D 4A
FC5001	A D 8F
FC5002	A D 7F
LF5002	A D 6F
PC5101	A D 4B
SG5001	B C 10F
T5001	A D 3B
VA5001	A D 7G
VA5003	A D 9G

COMPONENT PARTS LOCATION GUIDE <JUNCTION>

REF.NO.	LOCATION
CAPACITOR	
C5501	B C 3E
C5502	B C 3E
C5504	B C 11E
C5505	B C 11E
C5506	B C 11F
C5507	B C 11F
C5508	B C 3G
C5509	B C 3G
C5510	B C 2G
C5511	A D 3G
C5515	A D 1F
C5516	A D 13G
C5519	B C 2C
C5520	B C 2C
C5521	B C 3C
C5522	B C 3C
C5524	B C 2E
C5525	B C 2D
C5526	B C 1F
C5530	B C 2F
C5531	B C 1G
C5532	B C 1G
C5533	A D 3H
C5534	B C 4F
C5535	B C 3F
C5536	B C 3F
C7101	B C 8E
C7102	B C 8F
C7103	B C 7E
C7104	A D 12H
C7105	B C 7F
C7106	B C 6E
C7107	B C 6E
C7112	A D 12H
C7123	B C 9F
C7124	B C 9F
C7131	B C 10G
C7132	B C 10H
C7133	B C 10H
C7135	B C 10G
C7137	B C 6E
C7141	B C 3J
C7142	B C 3I
C7143	B C 7G
C8001	B C 6J
C8002	B C 6J
C8003	B C 5J
C8004	B C 5I
C8005	B C 5I
C8006	B C 5I
C8007	B C 6I
C8008	B C 6I
C8009	A D 6I
C8010	A D 6I
C8011	A D 6I
C8012	B C 7I
C8013	A D 7I
C8014	B C 7I
C8015	A D 7I
C8016	B C 7I
C8051	A D 7H
C8052	A D 4I
C8053	B C 5J
C8054	A D 8I
C8055	B C 6J
C8056	A D 6K
C8057	A D 6J
C8201	A D 5J
C8202	B C 5K
C8203	B C 6K
C8204	B C 5J
C8205	B C 6K
C8206	B C 6K
C8207	B C 6K
C8208	A D 5K
C8209	B C 7K
C8210	A D 7K
C8231	A D 7I
C8232	B C 7I
CONNECTOR	
CN5501	A D 1G
CN5503	A D 4G
CN5504	A D 4F
CN5505	A D 3D
CN5506	A D 2B
CN5507	A D 4F
CN7102	A D 9K
CN7103	A D 2J
CN7104	A D 3J
CN7107	A D 1J
CN7108	A D 9H
CN7109	A D 7H
CN7110	A D 7H
CN7124	A D 3B
CN7125	A D 3A
CN8001	A D 4K
DIODE	
D5501	A D 6C
D5502	A D 13D
D5503	A D 12D
D5504	A D 12E
D5510	A D 11D
D5512	A D 11E
D5513	A D 11D
D5514	A D 7C
D8001	A D 4H
IC	
IC5501	A D 3E
IC5502	B C 11E
IC5503	B C 2G
IC7101	B C 7E
IC8001	B C 6I
IC8002	B C 7I
IC8201	B C 5K
IC8202	B C 7K
COIL	
L5501	A D 4D
L7101	A D 12G
L7102	A D 9F
L8001	A D 8I
L8002	A D 8H
TRANSISTOR	
Q5501	B C 6C
Q5502	B C 5C
Q5503	B C 5C
Q5504	A D 11J
Q5505	B C 10I
Q5507	A D 13E
Q5508	A D 2H
Q5509	B C 2G
Q7101	B C 9F
Q7151	B C 9H
Q8001	B C 5K
Q8002	B C 4K
Q8003	B C 8J
Q8004	B C 8I
Q8005	B C 8I
Q8006	B C 5I
Q8007	B C 5I
Q8008	B C 5I
RESISTOR	
R5501	A D 7B
R5502	A D 7C
R5503	B C 6C
R5504	B C 10J
R5505	B C 10I
R5506	A D 11D
R5507	B C 2C
R5508	B C 2C
R5509	B C 3C
R5510	B C 3C
R5511	B C 2H
R5512	A D 3H
R5513	A D 2H
R5514	A D 10J
R5515	A D 10J
R5516	A D 1F
R5521	A D 4F
R7101	B C 8F
R7145	B C 5E
R7146	B C 5E
R7147	B C 6F
R7148	B C 5F
R7149	B C 5E
R7150	B C 5E
R7151	B C 5E
R7152	B C 9H
R7161	B C 3J
R7162	B C 3J
R8001	B C 6J
R8002	B C 5J
R8003	B C 5J
R8004	B C 5J
R8005	B C 6I
R8006	B C 5I
R8007	B C 5I
R8008	B C 6I
R8009	B C 6I
R8010	B C 6I
R8011	B C 6I
R8012	B C 6H
R8013	B C 7J
R8014	B C 7J
R8015	B C 7J
R8016	B C 7J
R8017	B C 7I
R8018	B C 7J
R8019	B C 6J
R8020	B C 5I
R8021	B C 5H
R8022	B C 5I
R8023	B C 5I
R8051	B C 4I
R8052	B C 5J
R8201	B C 5J
R8202	B C 5K
R8203	B C 5J
R8204	B C 5J
R8205	B C 5K
R8206	B C 6J
R8207	B C 6K
R8208	B C 6K
R8209	B C 6K
R8210	B C 6K
R8211	B C 5K
R8212	B C 4K
R8213	B C 6J
R8214	B C 7J
R8215	B C 7J
R8216	B C 7J
R8217	B C 7J
R8218	B C 7K
R8219	B C 7K
R8220	B C 7K
R8221	B C 7K
R8222	B C 6K
R8231	B C 4J
R8232	B C 4K
R8233	B C 8I
OTHER	
CP5501	A D 1F
K7101	B C 8G
K8001	B C 7I
K8002	B C 8I
K8201	B C 8I
K8202	B C 8K

■ MAIN CIRCUIT BOARD

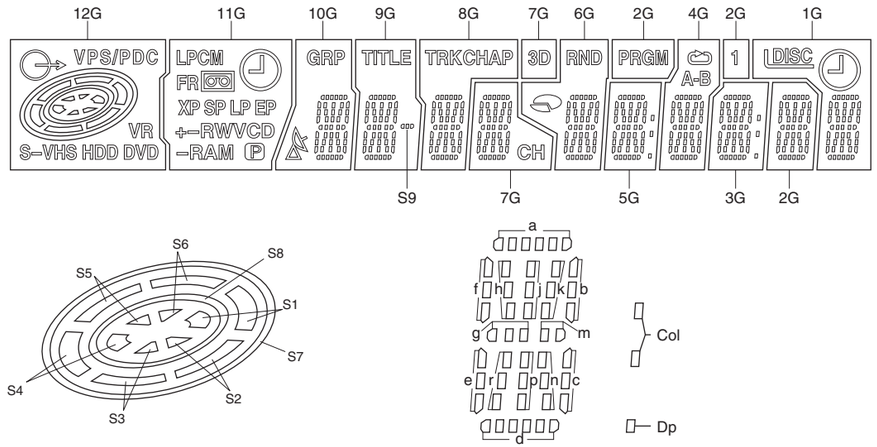
<03>MAIN



COMPONENT PARTS LOCATION GUIDE <MAIN>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C551	B C 19G	C3040	B C 4K	D501	B C 15G	Q2605	B C 15F	R2210	B C 7C	R3057	B C 3K	R4305	B C 19L
C1	B C 13H	C552	B C 19H	C3041	B C 3G	D502	B C 15G	Q2606	B C 15E	R2211	B C 8C	R3059	B C 2G	R4306	B C 19L
C2	B C 14H	C553	B C 18H	C3042	A D 8O	D503	B C 18G	Q3002	A D 8P	R2212	B C 8C	R3060	B C 3G	R4307	B C 19J
C3	B C 13H	C2001	A D 14I	C3049	B C 4I	D2001	A D 5C	Q3003	A D 8B	R2213	B C 7C	R3061	B C 3G	R4308	B C 19J
C4	A D 14H	C2002	A D 14H	C3050	B C 3G	D2201	A D 8D	Q3004	B C 15O	R2214	B C 8C	R3062	B C 2G	R4309	B C 19L
C5	B C 13H	C2003	A D 14F	C3054	B C 2E	D2251	A D 9F	Q3005	B C 9P	R2215	B C 9C	R3063	B C 2F	R4310	B C 19L
C6	B C 13H	C2004	B C 13G	C3066	B C 11N	D2601	A D 21C	Q3007	B C 4J	R2218	B C 9C	R3066	B C 2F	R4311	B C 20J
C7	B C 13H	C2005	A D 14E	C3071	A D 10N	D2602	A D 15D	Q3011	B C 2M	R2219	B C 10C	R3069	B C 3F	R4313	B C 19L
C8	B C 13I	C2006	B C 14F	C3072	B C 16P	D3001	A D 8I	Q3012	B C 4E	R2220	B C 8D	R3071	B C 3F	R4317	B C 19J
C9	A D 13I	C2007	A D 14E	C3073	A D 2O	D3002	A D 4K	Q3901	B C 2F	R2222	B C 12D	R3075	B C 3F	R4318	B C 19J
C10	A D 13I	C2008	A D 14F	C3602	A D 2M	D3003	A D 17P	Q4001	B C 7J	R2223	B C 11D	R3076	B C 3F	R4319	B C 20K
C11	B C 14J	C2009	B C 14F	C3603	B C 2L	D3004	A D 8P	Q4201	B C 17L	R2224	B C 10E	R3077	B C 4F	R4320	A D 20K
C12	B C 14J	C2010	B C 14G	C3604	B C 2L	D3005	A D 7P	Q4302	B C 19K	R2225	B C 10E	R3078	A D 3E	R6001	B C 21C
C13	B C 13J	C2011	A D 14F	C4001	A D 9O	D3008	A D 3J	Q4303	B C 19J	R2226	B C 11C	R3079	B C 4F	R6002	B C 20C
C14	B C 13J	C2012	A D 13G	C4002	B C 5H	D3011	A D 12P	Q6001	A D 20C	R2227	B C 11C	R3080	A D 5P	R6020	B C 19B
C15	B C 12H	C2013	B C 13G	C4003	B C 6I	D4001	B C 6F	Q6030	B C 18C	R2228	B C 12C	R3081	A D 3E	R6021	B C 19B
C17	B C 12I	C2016	B C 14F	C4004	A D 7I	D4002	B C 5G	Q6031	B C 18C	R2229	B C 12C	R3083	B C 4E	R6022	B C 19B
C19	B C 12I	C2051	B C 14L	C4005	B C 6H	D4301	A D 19K	Q7301	B C 20O	R2230	B C 11C	R3085	B C 4F	R6030	B C 15B
C20	B C 11I	C2052	A D 10B	C4006	A D 6I	D6002	A D 18B	Q7302	A D 21N	R2231	B C 10C	R3086	B C 4F	R6031	B C 18B
C22	B C 11I	C2053	B C 4C	C4007	B C 6H	D7301	B C 21O			R2232	B C 11C	R3087	A D 4E	R6032	B C 18B
C24	B C 12J	C2054	B C 4C	C4008	B C 6H	D7302	B C 21O	**RESISTOR**		R2233	B C 11C	R3089	B C 4F	R6033	B C 18C
C25	A D 12J	C2055	A D 5C	C4009	B C 6I			R1	B C 13H	R2234	B C 9C	R3090	B C 5F	R6080	B C 20B
C26	A D 11J	C2201	A D 11C	C4010	B C 7K	**IC**		R2	B C 14H	R2239	B C 9E	R3091	A D 5E	R7101	B C 21N
C27	B C 11J	C2202	A D 11C	C4011	B C 5F	IC1	B C 12H	R3	B C 14H	R2240	B C 9E	R3092	B C 5F	R7102	B C 20N
C29	B C 10J	C2203	A D 13D	C4012	B C 6F	IC201	A D 17O	R5	B C 13I	R2241	B C 8D	R3093	B C 5F	R7103	B C 19P
C30	A D 11I	C2204	A D 12D	C4014	B C 6G	IC501	B C 16H	R6	B C 12I	R2242	B C 9D	R3094	B C 5F	R7104	B C 19P
C31	A D 11H	C2205	A D 12D	C4015	B C 6H	IC2201	B C 10D	R7	B C 12J	R2243	B C 8D	R3095	A D 6F	R7105	B C 18P
C32	B C 11H	C2206	A D 12D	C4018	B C 6F	IC2601	B C 16B	R11	B C 11G	R2244	B C 9D	R3096	B C 5F	R7106	B C 18P
C33	A D 12J	C2207	B C 11D	C4031	A D 11O	IC2602	B C 17F	R12	B C 9H	R2251	B C 10F	R3097	B C 6F	R7107	B C 18P
C34	B C 10J	C2208	B C 10E	C4032	B C 10N	IC2603	B C 16F	R13	B C 9I	R2252	B C 9F	R3103	B C 6G	R7119	B C 3A
C35	A D 10H	C2209	A D 10E	C4201	A D 17K	IC2604	B C 16C	R17	B C 10H	R2253	B C 9F	R3104	B C 6G	R7120	B C 2A
C36	A D 10H	C2210	A D 10F	C4202	B C 16K	IC2605	B C 19D	R21	B C 13D	R2255	B C 9E	R3106	B C 6G	R7121	B C 2A
C37	B C 10G	C2211	A D 10F	C4203	B C 17K	IC2606	A D 19F	R22	B C 13D	R2257	B C 10F	R3107	B C 6G	R7301	B C 20O
C38	B C 10H	C2212	A D 8E	C4204	B C 18K	IC2607	A D 16E	R31	B C 9G	R2601	B C 16A	R3205	A D 7H	R7302	B C 20O
C39	A D 10H	C2213	B C 9E	C4205	B C 16L	IC3001	B C 4G	R35	B C 10J	R2602	B C 16A	R3206	B C 7N	R7303	B C 20N
C40	B C 11G	C2214	A D 8C	C4206	B C 17L	IC3002	B C 2F	R36	B C 5F	R2603	B C 17A	R3207	B C 2D	R7304	B C 20N
C41	B C 10G	C2215	A D 8C	C4207	B C 18L	IC3003	B C 2C	R37	B C 12F	R2604	B C 17A	R3208	B C 5E	R7305	B C 21O
C43	A D 10H	C2216	A D 9C	C4208	A D 18L	IC3601	B C 3L	R38	B C 11J	R2605	B C 17B	R3209	B C 6E	R7306	B C 20O
C44	A D 9H	C2217	B C 9C	C4209	B C 18K	IC4201	A D 16L	R39	B C 10J	R2606	B C 17B	R3210	B C 5K	R7307	B C 21N
C45	B C 9H	C2219	A D 9C	C4210	A D 18K	IC4202	B C 17J	R41	B C 14J	R2607	B C 16B	R3211	B C 5K	R7308	B C 21O
C46	B C 11G	C2220	A D 9C	C4211	B C 18L	IC4301	B C 19K	R42	A D 13J	R2608	B C 16B	R3212	A D 5L	R7309	B C 21O
C47	A D 11G	C2221	B C 10C	C4216	B C 16J	IC4304	B C 20J	R43	B C 14J	R2609	B C 17F	R3213	B C 4J	R7310	A D 21N
C48	B C 11F	C2222	B C 9E	C4217	B C 17J	IC7101	B C 20M	R50	B C 10J	R2610	B C 15F	R3214	B C 6M	R7501	B C 20O
C49	A D 9H	C2223	B C 12D	C4218	B C 17J	IC7501	B C 20P	R201	B C 16M	R2611	B C 15E	R3215	B C 6M	R7502	B C 20P
C50	B C 9H	C2224	B C 10F	C4301	B C 19L			R202	B C 17N	R2612	B C 20F	R3216	B C 6M	R7503	B C 20P
C55	B C 11F	C2225	B C 10C	C4302	A D 19L	**COIL**		R203	B C 18M	R2613	B C 20F	R3217	B C 6M	R7504	B C 21P
C56	B C 12F	C2226	B C 11C	C4304	B C 19K	L1	A D 14I	R204	B C 18M	R2614	B C 16E	R3218	B C 17P	R7505	B C 21P
C57	B C 13F	C2227	A D 8D	C4305	B C 19J	L2	A D 13I	R205	B C 18M	R2615	B C 17E	R3219	B C 15O	R7506	B C 21P
C58	B C 13F	C2228	B C 9C	C4306	B C 19K	L3	A D 12K	R206	B C 18M	R2616	B C 16F	R3220	B C 3I	R7507	B C 20P
C59	B C 13F	C2229	B C 10C	C4307	B C 19J	L5	A D 11I	R207	B C 17N	R2617	B C 16F	R3222	B C 9P		
C60	B C 13E	C2232	B C 9E	C4308	B C 19L	L6	A D 10I	R208	B C 17N	R2618	B C 15F	R3223	B C 2C	**OTHER**	
C61	A D 12F	C2233	B C 9E	C4309	B C 20K	L7	A D 10G	R209	B C 18O	R2619	B C 15E	R3224	B C 2C	CP3002	A D 14P
C62	A D 12F	C2251	B C 11E	C4310	B C 19J	L10	A D 11E	R210	B C 18O	R2620	B C 15E	R3229	B C 3F	CP4002	A D 16P
C63	B C 13D	C2252	B C 11E	C4318	B C 20J	L11	A D 13I	R211	B C 18O	R2631	B C 16C	R3230	B C 2E	J7009	A D 22P
C64	B C 13D	C2253	B C 11E	C4319	B C 20K	L14	A D 10J	R212	B C 16O	R2632	B C 20D	R3231	B C 2E	J7301	A D 22O
C68	B C 14I	C2254	A D 11E	C6001	A D 20C	L15	A D 10G	R213	B C 17N	R2633	B C 19D	R3235	B C 2D	JS3001	A D 6M
C71	A D 12F	C2255	B C 11E	C6002	B C 20C	L201	A D 18O	R501	B C 16G	R2634	B C 20D	R3236	B C 2D	K2001	B C 14G
C72	B C 11F	C2256	B C 11E	C6005	A D 19C	L202	A D 17M	R502	B C 15G	R2635	B C 19D	R3237	B C 2N	K2002	B C 13G
C75	B C 10J	C2257	A D 11F	C6006	B C 18B	L203	A D 17O	R505	B C 15F	R2636	B C 20D	R3241	B C 3D	K2003	B C 14L
C85	A D 13J	C2258	B C 9F	C6012	A D 20C	L501	A D 15G	R506	B C 15F	R2637	B C 20D	R3246	B C 5J	K2004	B C 14L
C201	A D 18N	C2259	A D 10F	C6013	B C 21B	L502	A D 15H	R507	B C 16G	R2651	A D 15B	R3247	B C 5J	K2251	B C 11E
C202	B C 18N	C2261	B C 11E	C6014	B C 21B	L503	A D 20G	R508	B C 16G	R2652	B C 21F	R3250	B C 4J	K2252	B C 11E
C203	B C 17N	C2262	B C 11E	C6020	B C 19B	L504	A D 19H	R509	B C 18G	R2653	B C 17C	R3251	B C 6J	K7501	B C 20O
C204	A D 17N	C2601	B C 16A	C6021	B C 19B	L507	A D 18H	R510	B C 18G	R2654	B C 18D	R3252	B C 10O	K7502	B C 20P
C205	A D 17N	C2602	B C 16B	C6027	B C 19B	L2001	A D 14E	R513	B C 13N	R2655	B C 15E	R3253	B C 10O	K7503	B C 21P
C206	B C 18N	C2603	A D 20E	C6028	B C 19B	L2201	A D 8E	R514	B C 13N	R2656	B C 15E	R3254	B C 4J	PC3001	A D 5E
C207	B C 16N	C2604	A D 19D	C6032	B C 18C	L2251	A D 11E	R517	B C 19G	R2657	B C 15C	R3255	B C 6M	PC3002	A D 5K
C208	B C 17O	C2605	A D 19F	C6037	A D 19C	L2252	A D 10F	R518	B C 20G	R2658	B C 17E	R3258	B C 4K	S3001	A D 3C
C209	B C 17O	C2606	A D 19F	C6751	A D 18C	L3001	A D 10P	R519	B C 20G	R2659	B C 17E	R3259	B C 5J	T2051	A D 4C
C210	B C 17N	C2607	A D 20F	C6752	B C 18C	L4001	A D 10O	R520	B C 20H	R2660	B C 16C	R3260	B C 3K	TP106	A D 14B
C211	B C 18N	C2608	A D 20F	C7110	B C 21M	L4201	A D 17K	R521	B C 20H	R2661	B C 16C	R3261	B C 2C	TP111	A D 14B
C212	B C 18N	C2609	A D 19F	C7111	A D 21M	L4202	A D 18K	R522	B C 19G	R2662	B C 16D	R3262	B C 1C	TP2253	A D 14B
C213	B C 17N	C2610	A D 20F	C7112	B C 20N	L4301	A D 19M	R523	B C 19G	R2663	B C 15E	R3263	B C 2D	TP3901	B C 3J
C501	B C 15H	C2611	A D 20F	C7301	B C 20O	L6002	A D 20B	R524	B C 19H	R2664	B C 16B	R3264	B C 3P	TP3902	B C 2J
C502	B C 16G	C2612	A D 16E	C7302	B C 20O	L6003	A D 20C	R525	B C 19G	R2665	B C 16D	R3269	B C 4E	TP3903	B C 3G
C503	B C 15H	C2613	A D 15E	C7303	B C 21O	L6005	A D 19C	R526	B C 19H	R2666	B C 21C	R3601	B C 3K	TP3904	B C 3F
C504	B C 16G	C2614	A D 16E	C7304	B C 21O	L6701	A D 19C	R527	B C 18H	R2667	B C 16C	R3602	B C 3L	TP3905	B C 2F
C505	B C 15F	C2615	A D 17E	C7305	B C 21O	L7101	A D 21M	R528	B C 18H	R3011	B C 6I	R3603	B C 3L	TP3906	B C 3H
C506	B C 15G	C2616	A D 17E	C7306	B C 21N	L7301	A D 20N	R529	B C 18H	R3012	B C 6I	R3604	B C 3L	TP3907	B C 3G
C507	B C 16F	C2617	A D 17E	C7307	A D 21N	L7501	A D 20P	R530	B C 18H	R3013	A D 6J	R3605	B C 2L	TP3908	B C 2G
C508	B C 15G	C2618	A D 17E	C7501	A D 20P			R531	B C 19H	R3014	A D 6J	R3606	B C 2L	TP3910	B C 6G
C509	B C 16G	C2651	A D 20G	C7502	B C 20P	**TRANSISTOR**		R532	A D 15H	R3015	A D 6J	R3607	B C 2L	TP3911	B C 4J
C510	B C 16G	C2652	B C 20F	C7503	A D 20P	Q2	B C 12J	R2003	B C 14I	R3016	A D 6J	R3608	B C 2L	TP4001	A D 13B
C511	A D 16G	C2653	A D 15B	C7504	B C 21P	Q4	B C 10G	R2005	B C 13H	R3017	A D 6J	R3609	B C 2L	TU6001	A D 21B
C512	B C 16G	C2654	B C 15B	C7505	B C 21P	Q7	B C 12E	R2007	B C 14H	R3018	B C 5I	R3610	B C 2L	WR2	A D 21O
C513	A D 17G	C3004	B C 16P	C7509	B C 21P	Q8	B C 13E	R2008	B C 13H	R3019	B C 5I	R3611	B C 2L	X1	A D 11F
C514	A D 16G	C3007	B C 8P			Q9	B C 13E	R2010	B C 14H	R3021	B C 5I	R3612	B C 3L	X2	A D 11G
C515	B C 16G	C3008	B C 8B	**CONNECTOR**		Q10	B C 13E	R2013	B C 13F	R3022	B C 5I	R4001	B C 6G	X3001	A D 3G
C516	B C 17G	C3010	A D 2O	CN1	A D 12E	Q12	B C 9G	R2014	B C 14F	R3025	A D 6K	R4003	B C 6H	X3002	A D 3F
C517	B C 18G	C3011	A D 2O	CN501	A D 19G	Q13	B C 9J	R2015	B C 14F	R3026	A D 4L	R4004	B C 6H	X4201	A D 17L
C518	B C 17G	C3012	A D 8O	CN2001	A D 14L	Q15	B C 10J	R2016	B C 14F	R3027	B C 5J	R4005	B C 6H		
C519	B C 18G	C3014	A D 8P	CN2002	A D 11B	Q16	B C 13J	R2017	B C 14F	R3029	B C 4I	R4007	B C 7L		
C520	B C 17G	C3015	B C 5H	CN2601	A D 10P	Q201	B C 16N	R2018	B C 14G	R3030	B C 4J	R4008	B C 5I		
C521	A D 18G	C3016	B C 3H	CN3001	A D 11N	Q202	B C 17M	R2019	B C 14G	R3031	B C 4J	R4009	B C 5F		
C522	B C 17G	C3017	B C 3H	CN3102	A D 1N	Q203	B C 18N	R2021	B C 14E	R3032	B C 4J	R4010	B C 5F		
C523	B C 18G	C3018	B C 2H	CN3103	A D 5P	Q501	B C 20G	R2022	B C 12F	R3034	B C 4J	R4012	B C 5G		
C524	B C 17G	C3019	B C 2H	CN3901	A D 1L	Q502	B C 19G	R2023	B C 5C	R3035	B C 4I	R4013	B C 6G		
C525	B C 18H	C3020	B C 2H	CN4401	A D 16J	Q503	B C 19H	R2051	B C 4B	R3036	B C 4I	R4015	B C 6F		
C526	B C 18H	C3021	B C 2H	CN5311	A D 17P	Q504	B C 19H	R2052	B C 4B	R3037	B C 3J	R4016	B C 5F		
C527	B C 18H	C3022	B C 2C	CN6701	A D 19C	Q2001	B C 14G	R2053	B C 4B	R3038	B C 4J	R4017	B C 6G		
C528	B C 17H	C3024	B C 3G	CN7111	A D 19P	Q2002	B C 14G	R2054	B C 4C	R3039	B C 3J	R4020	B C 9O		
C529	B C 17H	C3025	A D 2G	CN7112	A D 3A	Q2003	B C 14G	R2055	B C 3C	R3040	B C 3I	R4021	B C 6G		
C530	B C 18H	C3026	B C 2F	CN7113	A D 21D	Q2051	B C 4C	R2056	A D 5C	R3041	B C 3I	R4022	B C 6H		
C531	B C 18H	C3027	A D 2E	CN7114	A D 21G	Q2052	B C 5C	R2057	B C 5B	R3042	B C 3I	R4127	B C 18L		
C532	B C 17H	C3028	B C 2G	CN7115	A D 21J	Q2053	B C 5C	R2058	B C 5B	R3044	B C 3I	R4128	B C 17L		
C533	B C 17H	C3029	B C 2G	CN7119	A D 18M	Q2054	B C 5C	R2059	B C 6C	R3046	B C 3J	R4201	B C 17K		
C534	B C 16H	C3030	A D 2F	CN7301	A D 20O	Q2055	B C 5B	R2060	B C 5C	R3047	B C 2J	R4202	B C 17K		
C535	B C 16H	C3031	B C 3F			Q2201	B C 7D	R2201	B C 11C	R3048	B C 2J	R4203	B C 17K		
C536	B C 16H	C3032	B C 4F	**DIODE**		Q2202	B C 7D	R2202	B C 11C	R3049	B C 3H	R4204	B C 18K		
C542	B C 16H	C3033	B C 5G	D1	A D 14E	Q2203	B C 8C	R2203	B C 12C	R3050	B C 2H	R4206	B C 17K		
C543	B C 16H	C3034	B C 3E	D2	A D 14E	Q2204	B C 8C	R2204	B C 11C	R3051	B C 2H	R4209	B C 18L		
C544	A D 15H	C3035	B C 3E	D3	A D 13I	Q2255	B C 9F	R2205	B C 12C	R3052	B C 2H	R4210	B C 18L		
C547	B C 19G	C3036	B C 2F	D4	A D 13I	Q2601	B C 20D	R2206	B C 12C	R3053	B C 2H	R4211	B C 18K		
C548	B C 20G	C3037	B C 3F	D201	A D 18O	Q2602	B C 20D	R2207	B C 12C	R3054	B C 2G	R4215	B C 17L		
C549	B C 19G	C3038	B C 4E	D202	A D 18O	Q2603	B C 20D	R2208	B C 12C	R3055	B C 2G	R4216	B C 16L		
C550	B C 20H	C3039	B C 4E	D203	A D 18O	Q2604	B C 15F	R2209	B C 8C	R3056	B C 2G	R4304	B C 19L		

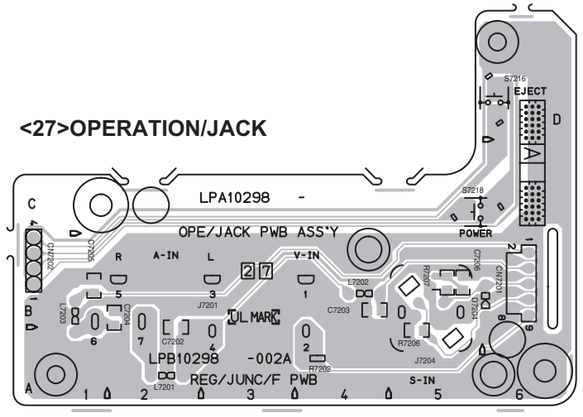
■ FDP GRID ASSIGNMENT AND ANODE CONNECTION



	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	VPS/PDC	LPCM	GRP	TITTLE	TRK	3D	RND	col		col	1	
P2				S9	CHAP	CH		Dp	A-B	Dp	PRGM	LDISC
P3	-		a	a	a	a	a	a	a	a		a
P4	S1	FR	h	h	h	h	h	h	h	h	h	h
P5	S2	XP	j	j	j	j	j	j	j	j	j	j
P6	S3	SP	k	k	k	k	k	k	k	k	k	k
P7	S4	LP	b	b	b	b	b	b	b	b	b	b
P8	S5	EP	f	f	f	f	f	f	f	f	f	f
P9	S6	+	m	m	m	m	m	m	m	m	m	m
P10	S7	–	g	g	g	g	g	g	g	g	g	g
P11	S8	R	c	c	c	c	c	c	c	c	c	c
P12	VR	W	e	e	e	e	e	e	e	e	e	e
P13	S–	V	r	r	r	r	r	r	r	r	r	r
P14	VHS	CD	p	p	p	p	p	p	p	p	p	p
P15	HDD	-RAM	n	n	n	n	n	n	n	n	n	n
P16	DVD	Ⓟ	d	d	d	d	d	d	d	d	d	d

■ OPERATION/JACK,SWITCH/DISPLAY, AND DV JACK CIRCUIT BOARDS

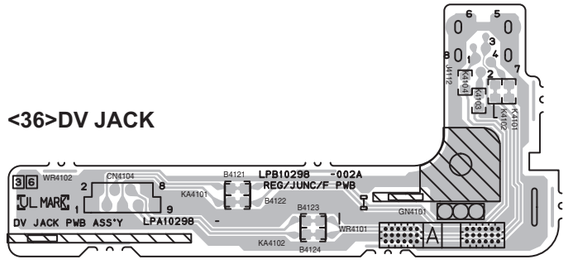
<27>OPERATION/JACK



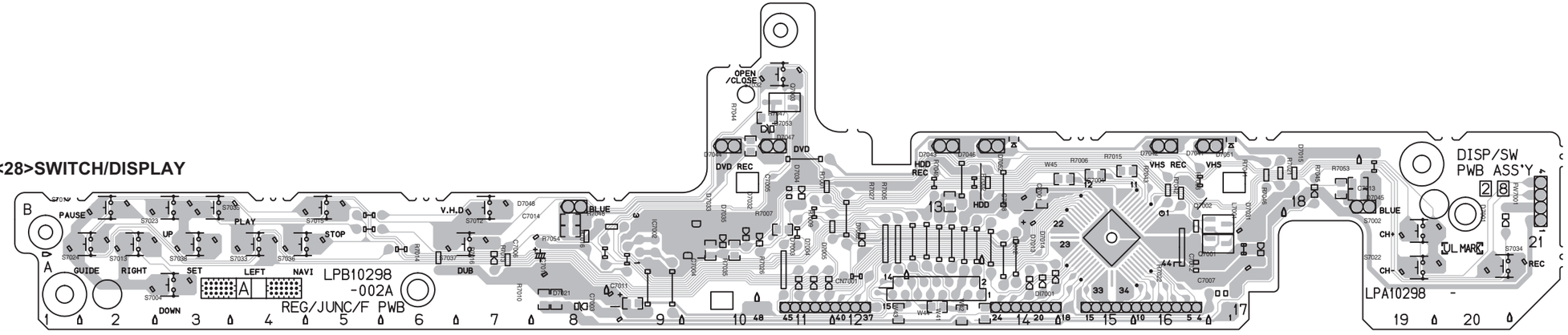
COMPONENT PARTS LOCATION GUIDE <OPERATION/JACK>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR				D7204	A D 6A			**OTHER**	
C7202	B C 2A	**CONNECTOR**				**RESISTOR**		J7201	A D 3B
C7203	B C 4B	CN7201	A D 6B	**COIL**		R7202	A D 4A	J7204	A D 5B
C7204	B C 2A	CN7202	A D 1B	L7201	A D 2A	R7206	B C 5A	S7216	A D 6D
C7205	B C 1B			L7202	A D 4B	R7207	B C 5B	S7218	A D 5C
C7206	B C 5B	**DIODE**		L7203	A D 1B				

<36>DV JACK



<28>SWITCH/DISPLAY



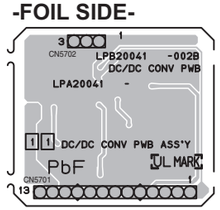
COMPONENT PARTS LOCATION GUIDE <SWITCH/DISPLAY>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR				D7015	A D 18B	D7046	A D 14C	L7001	A D 17A	R7007	B C 11B	R7042	A D 16B	S7002	A D 19B	S7036	A D 4B
C7001	B C 14B	**CONNECTOR**		D7016	A D 7A	D7047	A D 11C			R7009	A D 12B	R7043	A D 16B	S7004	A D 3A	S7037	A D 7B
C7002	A D 16A	CN7001	A D 13A	D7021	A D 8A	D7048	A D 8B	**TRANSISTOR**		R7010	B C 8A	R7044	B C 10C	S7012	A D 7B	S7038	A D 3B
C7003	A D 9A			D7031	A D 17B	D7051	B C 17C	Q7001	B C 17B	R7013	A D 7B	R7045	B C 18B	S7013	A D 2B		
C7004	B C 10B	**DIODE**		D7032	A D 11B	D7052	B C 14C	Q7002	B C 17B	R7014	A D 6B	R7046	A D 17B	S7014	A D 2B		
C7005	A D 11B	D7001	A D 20B	D7033	A D 10B	D7053	A D 10C	Q7003	B C 11D	R7015	B C 15C	R7047	B C 11C	S7015	A D 5B		
C7006	A D 8B	D7002	A D 12B	D7034	A D 11B	DI7001	A D 14B			R7016	A D 8B	R7048	A D 9B	S7022	A D 19A		
C7007	A D 17A	D7003	A D 11A	D7035	A D 10B			**RESISTOR**		R7021	A D 18B	R7049	B C 13B	S7023	A D 3B		
C7008	A D 14B	D7004	A D 11A	D7041	A D 17C	**IC**		R7001	A D 11C	R7022	A D 16B	R7053	B C 18B	S7024	A D 2B		
C7010	B C 8A	D7005	A D 11A	D7042	A D 16C	IC7001	B C 15B	R7002	A D 14C	R7026	A D 11B	R7054	B C 8B	S7032	A D 11D		
C7011	B C 9A	D7012	A D 14A	D7043	A D 13C	IC7002	A D 10B	R7003	A D 16B	R7027	A D 12B			S7033	A D 4B		
C7013	B C 18B	D7013	A D 14A	D7044	A D 10C			R7005	A D 12B	R7035	B C 10B	**OTHER**		S7034	A D 20A		
C7014	B C 8B	D7014	A D 14A	D7045	A D 19B	**COIL**		R7006	B C 15C	R7041	A D 17B	FW7001	A D 21B	S7035	A D 3B		

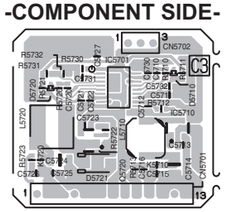
■ DC/DC CONV, SECAM AND TERMINAL CIRCUIT BOARDS

<11>DC/DC CONV

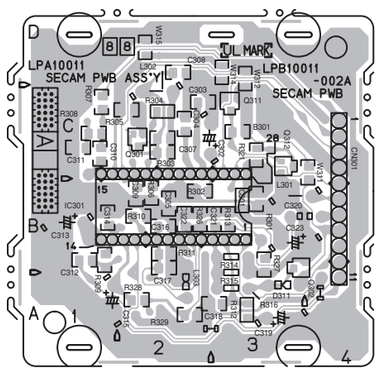
-FOIL SIDE-



-COMPONENT SIDE-



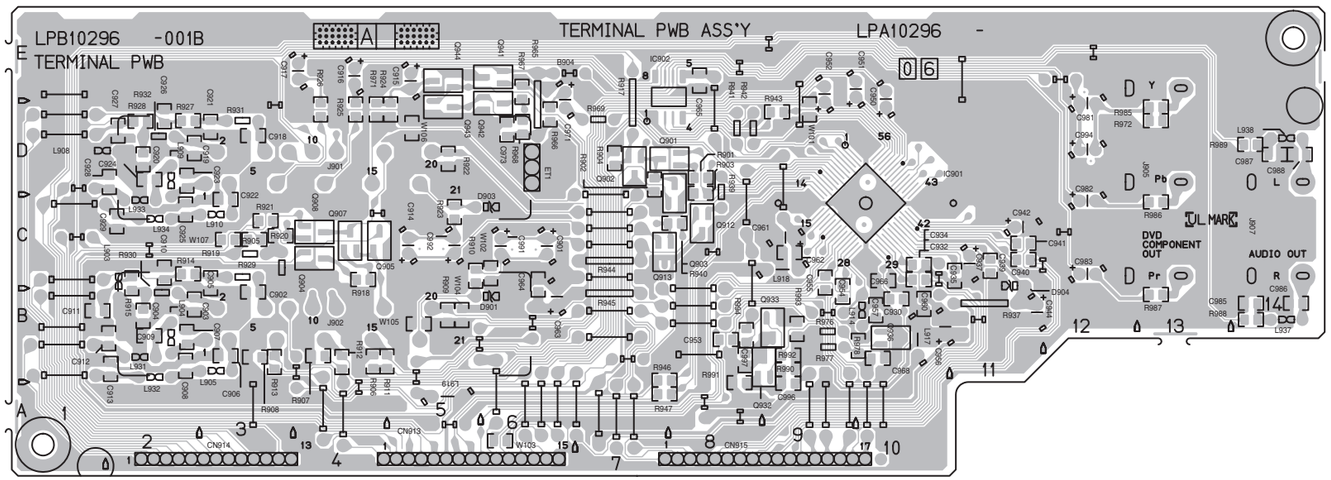
<88>SECAM



COMPONENT PARTS LOCATION GUIDE <SECAM>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C317	B C 2A			R304	B C 2C	R328	B C 2A
C301	B C 3B	C318	B C 2A	**COIL**		R305	B C 1C	R329	B C 2A
C302	A D 2C	C319	A D 3A	L301	A D 3B	R306	B C 2B		
C303	B C 2C	C320	A D 4B	L302	A D 2C	R307	B C 1C		
C304	B C 2C	C321	B C 2B	L303	A D 2A	R308	B C 1C		
C305	B C 2B	C322	B C 2B			R309	B C 1B		
C307	B C 2C	C323	A D 3B	**TRANSISTOR**		R310	B C 2B		
C308	B C 2D			Q301	B C 2C	R311	B C 2B		
C309	B C 2B	**CONNECTOR**		Q302	B C 3A	R312	B C 3A		
C310	B C 1C	CN301	A D 4C	Q311	B C 3C	R313	B C 3B		
C311	B C 1C			Q312	B C 3C	R314	A D 3B		
C312	B C 1B	**DIODE**				R315	A D 3A		
C313	A D 1B	D311	A D 3A	**RESISTOR**		R316	A D 3A		
C314	B C 1B			R301	B C 3B	R321	B C 3C		
C315	A D 1A	**IC**		R302	B C 2B	R326	B C 2B		
C316	B C 2B	IC301	A D 3B	R303	B C 2C	R327	B C 3A		

<06>TERMINAL

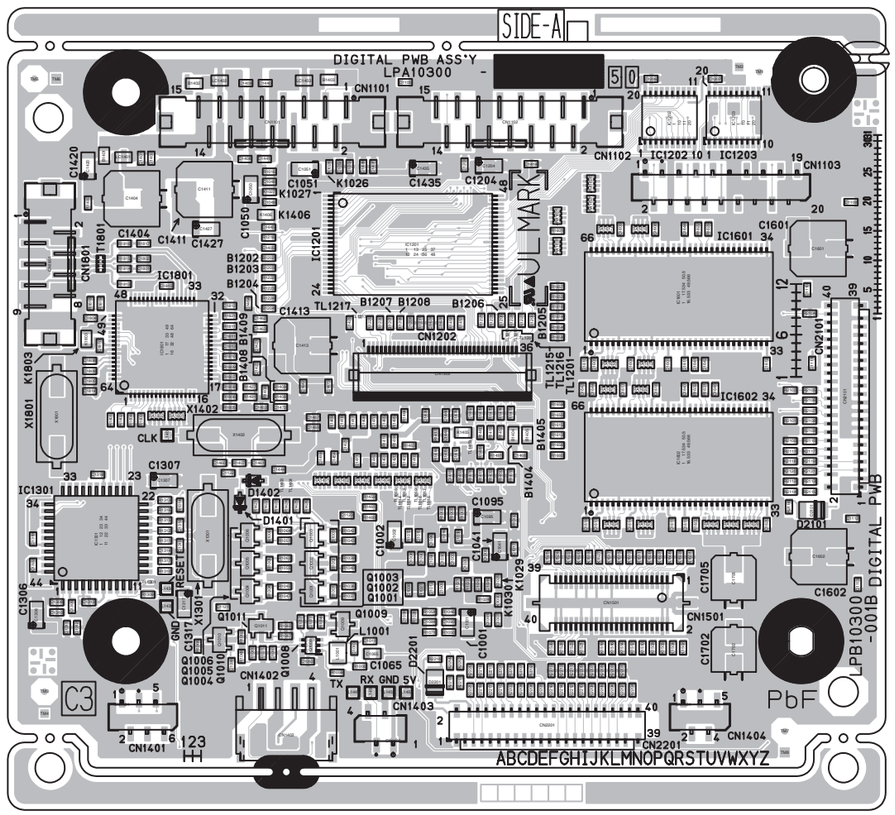


COMPONENT PARTS LOCATION GUIDE <TERMINAL>

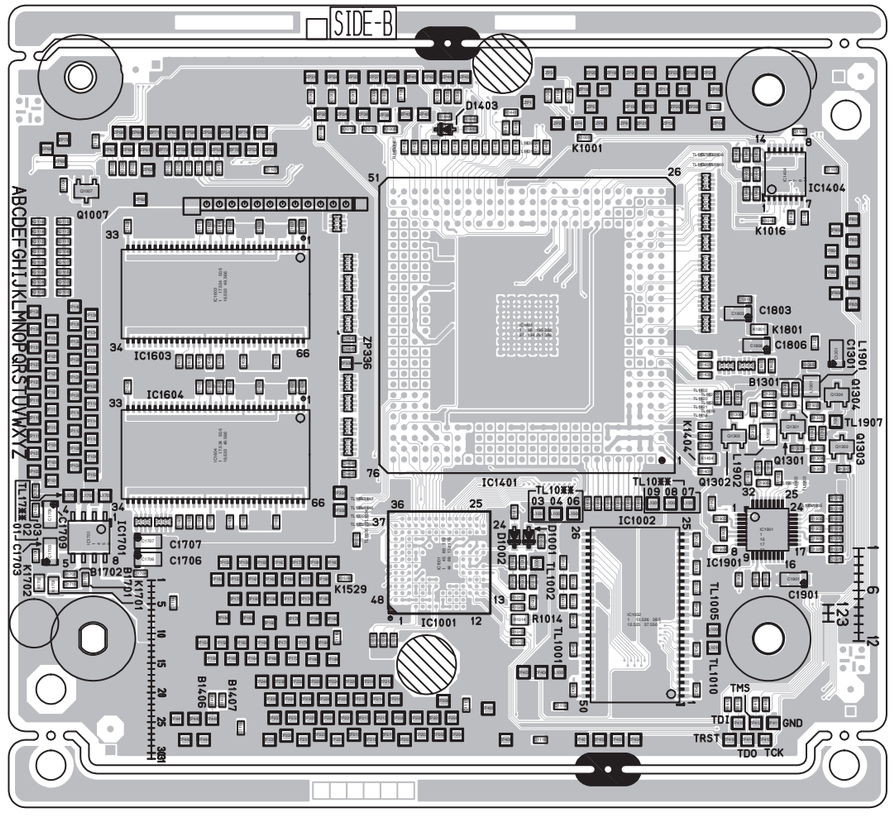
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C928	B C 2D	C971	A D 6E			Q913	B C 7C	R919	A D 3C	R969	A D 7D
C901	A D 6C	C929	B C 2C	C973	B C 6D	**COIL**		Q932	B C 9B	R920	B C 3C	R971	B C 4D
C902	B C 3B	C930	B C 10B	C981	A D 12D	L903	A D 2B	Q933	B C 9B	R921	B C 3C	R972	B C 13D
C903	B C 2B	C932	B C 10C	C982	A D 12C	L904	A D 2B	Q936	B C 10B	R922	B C 3C	R976	A D 9B
C904	B C 2B	C934	B C 10C	C983	A D 12C	L905	A D 3B	Q941	B C 6E	R923	B C 5C	R977	A D 9B
C905	B C 3C	C935	B C 11C	C985	B C 14B	L908	A D 2D	Q942	B C 6D	R924	B C 5D	R978	B C 10B
C906	B C 3B	C937	A D 11C	C986	B C 14B	L909	A D 2C	Q943	B C 5D	R925	B C 4D	R985	B C 13D
C907	B C 2B	C939	B C 11C	C987	B C 14D	L910	A D 3C	Q944	B C 5E	R926	B C 4D	R986	B C 13C
C908	B C 2B	C940	B C 11C	C988	B C 14D	L914	A D 10B			R927	B C 2D	R987	B C 13B
C909	B C 2B	C941	B C 11C	C991	A D 6C	L917	A D 10B	**RESISTOR**		R928	B C 2D	R988	B C 14B
C910	B C 2C	C942	A D 11C	C992	A D 5C	L918	A D 9C	R901	B C 8D	R929	A D 3C	R989	B C 14D
C911	B C 1B	C944	A D 11B	C994	A D 12D	L919	A D 5A	R902	B C 7D	R930	A D 2B	R990	B C 9B
C912	B C 2B	C950	A D 10D	C996	B C 9A	L931	A D 2B	R903	B C 8D	R931	A D 3D	R991	B C 8A
C913	B C 2B	C951	A D 10E	C997	B C 8B	L932	A D 2B	R904	B C 7D	R932	A D 2D	R992	B C 9B
C914	A D 5C	C952	A D 9D			L933	A D 2C	R905	B C 3C	R937	A D 11B	R993	B C 9B
C915	A D 5E	C953	B C 8B	**CONNECTOR**		L934	A D 2C	R906	B C 4B	R939	A D 8D	R994	B C 8B
C916	A D 4E	C954	B C 9B	CN913	A D 4A	L937	A D 14B	R907	B C 4B	R940	B C 8C		
C917	A D 4E	C955	B C 9C	CN914	A D 2A	L938	A D 14D	R908	B C 3B	R941	A D 8D	**OTHER**	
C918	B C 3D	C956	A D 10B	CN915	A D 7A			R909	B C 5B	R942	A D 8D	J901	A D 4D
C919	B C 2D	C957	B C 10B			**TRANSISTOR**		R910	B C 5C	R943	B C 9D	J902	A D 4B
C920	B C 2D	C960	B C 10B	**DIODE**		Q901	B C 8D	R911	B C 5B	R944	A D 7C	J905	A D 13D
C921	B C 3D	C961	A D 9C	D901	A D 6B	Q902	B C 7D	R912	B C 4B	R945	A D 7B	J907	A D 14C
C922	B C 3C	C962	B C 9C	D903	A D 6C	Q903	B C 8D	R913	B C 3B	R946	B C 7B		
C923	B C 2D	C963	A D 6B	D904	A D 11C	Q904	B C 4C	R914	B C 2C	R947	B C 7A		
C924	B C 2D	C964	B C 6C			Q905	B C 4C	R915	B C 2C	R965	A D 6D		
C925	B C 2C	C965	B C 8E	**IC**		Q907	B C 4C	R916	A D 3C	R966	B C 6D		
C926	B C 2D	C966	B C 10C	IC901	B C 10C	Q908	B C 4C	R917	A D 7D	R967	B C 6E		
C927	B C 2D	C968	B C 10B	IC902	B C 8E	Q912	B C 8C	R918	B C 4C	R968	B C 6D		

■ DIGITAL CIRCUIT BOARD

<50>DIGITAL -COMPONENT SIDE-



<50>DIGITAL -FOIL SIDE-

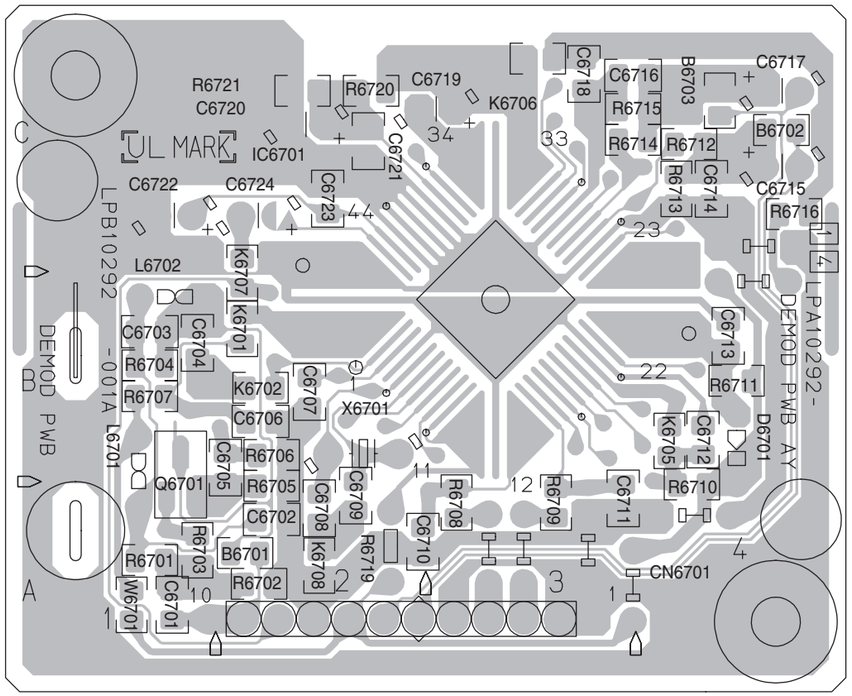


COMPONENT PARTS LOCATION GUIDE <DIGITAL>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C1053	A C 5F	C1206	A C 2F	C1417	A C 5D	C1468	A C 4D	C1636	B C 1D	C1906	B C 6C	IC1601	A C 2E	R1012	B C 5B	R1067	A C 5B	R1403	A C 4C	R1444	B C 4F	R1490	B C 5C	R1805	A C 6D	R2114	A C 1C	K1020	B C 2F	K1528	A C 3B	K2214	A C 3A	RA1632	A C 2C
C1001	A C 4B	C1063	A C 5B	C1207	A C 2F	C1418	A C 5D	C1469	A C 5D	C1641	A C 2D	C1907	B C 6C	IC1602	A C 2C	R1013	B C 5B	R1068	A C 6B	R1404	B C 4F	R1445	B C 6E	R1491	A C 6D	R1806	A C 6D	R2115	A C 1C	K1021	B C 2F	K1529	B C 3B	K2215	A C 3B	RA1633	A C 3E
C1002	A C 4C	C1065	A C 5B	C1208	A C 4D	C1420	A C 7F	C1470	A C 5D	C1642	A C 2D	C1908	B C 7C	IC1603	B C 2E	R1014	B C 5B	R1069	A C 6B	R1405	B C 4F	R1446	B C 4F	R1492	B C 4F	R1807	A C 6D	R2116	A C 1C	K1022	B C 1B	K1701	B C 1B	K2216	A C 3A	RA1634	A C 2C
C1003	A C 4B	C1077	A C 5B	C1301	B C 7D	C1421	A C 5D	C1471	A C 5C	C1643	A C 3D	C1909	B C 7C	IC1604	B C 2C	R1015	B C 5B	R1070	A C 5B	R1406	B C 6F	R1447	B C 6F	R1493	A C 7E	R1808	A C 6D	R2201	A C 4B	K1023	B C 1F	K1702	B C 1B	K2217	A C 4A	RA1801	A C 6D
C1005	A C 4C	C1088	B C 5A	C1302	B C 6D	C1422	A C 5D	C1472	A C 5D	C1644	A C 3D	C1910	B C 6B	IC1701	B C 1C	R1016	A C 5F	R1071	A C 4B	R1407	A C 6C	R1448	B C 4F	R1494	A C 4C	R1809	A C 6D	R2202	A C 3B	K1024	B C 1F	K1801	B C 6D	K2218	A C 4B	RA1802	A C 6D
C1007	A C 4B	C1090	A C 4B	C1303	B C 7C	C1423	A C 5D	C1473	A C 5D	C1645	A C 2D	C1911	B C 7D	IC1801	A C 6D	R1018	B C 5B	R1072	A C 4C	R1408	A C 5D	R1449	B C 6E	R1495	A C 4D	R1810	A C 6D	R2203	A C 3A	K1025	B C 1F	K1803	A C 7D	K2219	A C 4A	RA1901	A C 4C
C1008	A C 4B	C1091	A C 4B	C1304	B C 7D	C1424	A C 4D	C1474	A C 4D	C1646	A C 2E	C1912	B C 6C	IC1901	B C 6C	R1020	B C 5B	R1216	A C 5E	R1409	B C 6A	R1450	A C 4C	R1601	A C 3E	R1811	A C 6D	R2204	A C 3A	K1026	A C 5F	K2101	B C 1E	K2220	A C 4B	RA1902	A C 4C
C1009	A C 4B	C1092	A C 4B	C1305	B C 7D	C1425	A C 5C	C1601	A C 1E	C1647	A C 2D					R1021	A C 4B	R1222	A C 5E	R1410	B C 6A	R1451	A C 4C	R1602	A C 2C	R1813	A C 7E	R2205	A C 3A	K1027	A C 5E	K2102	B C 1E	K2221	A C 4A	RA2101	B C 6E
C1010	A C 5B	C1093	A C 4B	C1306	A C 7B	C1427	A C 6E	C1602	A C 1C	C1648	B C 2D	**CONNECTOR**				R1022	A C 4B	R1223	A C 5E	R1411	A C 4C	R1452	A C 4C	R1613	A C 3C	R1814	A C 7E	R2206	A C 3A	K1029	A C 4B	K2103	B C 1E	LC1401	A C 7F	RA2102	B C 6E
C1011	A C 5B	C1094	A C 4B	C1307	A C 6C	C1428	A C 4D	C1605	A C 3D	C1649	B C 2C	CN1101	A C 5F	L1001	A C 5B	R1024	A C 4B	R1224	A C 5E	R1412	B C 6A	R1453	B C 5F	R1614	A C 3D	R1815	A C 7E	R2207	A C 3B	K1030	A C 4B	K2104	B C 1E	LC1402	A C 6F	RA2103	B C 6E
C1012	A C 4B	C1095	A C 4C	C1308	A C 7B	C1429	B C 3D	C1606	A C 3D	C1701	B C 1B	CN1102	A C 3F	L1901	B C 7D	R1027	A C 4B	R1225	A C 4D	R1413	B C 6A	R1455	B C 4F	R1615	A C 3D	R1816	A C 7E	R2208	A C 3A	K1404	B C 6C	K2105	B C 1E	LC1403	A C 5F	RA2104	B C 6E
C1014	A C 4C	C1096	A C 4C	C1309	A C 7B	C1430	B C 3D	C1607	A C 2D	C1702	A C 2B	CN1103	A C 2F	L1902	B C 7C	R1028	A C 4B	R1226	A C 4D	R1414	A C 4C	R1456	B C 4F	R1616	A C 3D	R1817	A C 6E	R2209	A C 3B	K1405	A C 4C	K2106	B C 1E	RA1401	A C 5C	RA2208	B C 6D
C1015	A C 4C	C1097	A C 5B	C1310	A C 7B	C1435	A C 4F	C1608	A C 2E	C1703	B C 1C	CN1202	A C 4D			R1029	B C 5B	R1227	A C 3D	R1415	A C 4C	R1457	A C 4D	R1617	B C 2E	R1818	A C 7E	R2210	A C 4A	K1406	A C 5E	K2107	B C 1E	RA1402	A C 5C	RA2209	B C 6D
C1017	A C 3C	C1098	A C 6B	C1311	A C 7B	C1436	A C 4D	C1609	A C 3E	C1704	B C 2B	CN1401	A C 7A	**TRANSISTOR**		R1030	B C 6B	R1228	A C 3D	R1416	A C 4C	R1458	A C 4D	R1618	B C 2D	R1819	A C 7E	R2211	A C 4B	K1501	A C 2B	K2108	B C 1E	RA1403	A C 5C	RA2210	B C 6E
C1018	B C 5B	C1101	B C 7F	C1312	A C 7B	C1437	A C 5F	C1610	A C 3D	C1705	A C 2B	CN1402	A C 5A	Q1001	A C 5B	R1031	B C 6B	R1229	A C 5D	R1417	A C 4C	R1459	A C 5C	R1619	B C 2E	R1820	B C 7D	R2212	A C 4B	K1502	A C 2B	K2109	B C 1E	RA1404	A C 4C	RA2211	B C 6E
C1019	B C 5B	C1102	B C 7F	C1313	A C 7B	C1438	A C 5F	C1611	A C 2D	C1706	B C 2B	CN1403	A C 4A	Q1002	A C 5B	R1032	B C 5B	R1230	A C 4D	R1418	A C 4C	R1460	A C 5C	R1620	B C 2D	R1821	A C 6D	R2213	A C 4B	K1503	A C 2B	K2110	B C 1E	RA1405	B C 6D	T1801	A C 7E
C1020	A C 4B	C1103	B C 6F	C1314	A C 6C	C1439	B C 3C	C1612	A C 1D	C1707	B C 2C	CN1404	A C 2A	Q1003	A C 5C	R1033	B C 5B	R1231	A C 4D	R1419	A C 4C	R1461	A C 5C	R1621	B C 2D	R1901	B C 6C	R2214	A C 4B	K1504	A C 2B	K2111	B C 1E	RA1406	B C 6D	TM1	A C 2F
C1022	B C 5B	C1104	B C 5F	C1315	A C 6C	C1440	A C 5F	C1613	A C 3C	C1708	B C 1C	CN1501	A C 3B	Q1004	A C 6B	R1036	A C 5B	R1301	B C 7C	R1420	A C 4C	R1462	A C 5C	R1622	A C 2E	R1902	B C 7C	R2215	A C 4B	K1505	A C 2B	K2112	B C 1E	RA1609	B C 3E	TM2	A C 2F
C1023	B C 5B	C1105	A C 4F	C1316	A C 6C	C1441	A C 5F	C1614	A C 3C	C1709	B C 1C	CN1801	A C 7E	Q1005	A C 6B	R1037	A C 5B	R1302	B C 7C	R1421	A C 5C	R1463	A C 4C	R1623	B C 2D	R1903	B C 7C	R2216	A C 4B	K1506	A C 2B	K2113	B C 1E	RA1610	B C 3E	TM3	A C 7A
C1026	A C 4B	C1106	B C 4F	C1317	A C 6B	C1442	A C 5D	C1615	A C 2C	C1710	B C 1B	CN2101	A C 1D	Q1006	A C 6C	R1039	A C 5B	R1303	B C 7C	R1422	A C 5C	R1464	A C 4D	R1624	B C 2C	R1904	B C 7C			K1507	A C 2B	K2114	B C 1E	RA1611	B C 3D	TM4	A C 7A
C1030	A C 4B	C1107	B C 3F	C1318	A C 7C	C1444	A C 5C	C1616	A C 2D	C1801	A C 6E	CN2201	A C 3A	Q1007	B C 1E	R1040	A C 5B	R1304	B C 7C	R1423	A C 5C	R1465	B C 6F	R1625	B C 2D	R1905	B C 7C	**OTHER**		K1508	A C 2B	K2115	B C 1E	RA1612	B C 3D	TM5	A C 7F
C1032	A C 4B	C1108	B C 1F	C1319	A C 7C	C1445	A C 5E	C1617	A C 3D	C1802	A C 6E			Q1008	A C 5B	R1042	A C 5C	R1305	B C 7D	R1424	A C 5C	R1467	B C 5F	R1626	B C 2C	R1906	B C 7C	K1001	B C 5F	K1509	A C 2B	K2116	B C 1E	RA1613	B C 3D	TM6	A C 7F
C1033	B C 3B	C1109	A C 1E	C1320	B C 7C	C1446	A C 4C	C1618	A C 3C	C1803	B C 6D	**DIODE**		Q1009	A C 5B	R1043	A C 5C	R1306	B C 6D	R1425	A C 5C	R1469	A C 5D	R1627	B C 2C	R1907	B C 6B	K1002	B C 5F	K1510	A C 2B	K2117	A C 1C	RA1614	B C 3D	TM7	A C 1A
C1034	B C 3B	C1110	A C 1E	C1321	B C 7B	C1447	B C 6C	C1619	A C 2C	C1804	A C 7D	D1001	B C 5C	Q1010	A C 6B	R1045	A C 5B	R1307	B C 7C	R1426	A C 5C	R1470	B C 5F	R1628	B C 2C	R1908	B C 6B	K1003	B C 5F	K1511	A C 2B	K2118	A C 1C	RA1615	B C 3D	TM8	A C 1A
C1035	B C 4B	C1111	A C 1D	C1322	A C 7B	C1448	B C 6C	C1620	A C 1C	C1805	A C 7D	D1002	B C 4C	Q1011	A C 5B	R1046	A C 4B	R1308	B C 7C	R1427	A C 6D	R1472	B C 4F	R1629	A C 2E	R1909	B C 6C	K1004	B C 4F	K1512	A C 3B	K2119	A C 1C	RA1616	B C 3C	X1301	A C 6C
C1036	A C 4C	C1112	A C 1C	C1323	B C 7D	C1452	A C 4D	C1621	B C 3E	C1806	B C 6D	D1401	A C 6C	Q1301	B C 7D	R1047	A C 5B	R1309	A C 6B	R1428	B C 6D	R1473	A C 3D	R1630	B C 2D	R1912	B C 6D	K1005	B C 4F	K1513	A C 3B	K2120	A C 1C	RA1617	A C 3E	X1402	A C 6C
C1038	A C 4B	C1113	A C 1B	C1401	A C 6F	C1453	A C 5D	C1622	B C 2E	C1807	B C 6D	D1402	A C 5C	Q1302	B C 6C	R1050	A C 4B	R1310	A C 6B	R1429	B C 6D	R1474	A C 4D	R1631	A C 2D	R1913	B C 7D	K1006	B C 4F	K1514	A C 3B	K2121	A C 1C	RA1618	A C 2E	X1801	A C 7D
C1039	A C 4B	C1114	B C 2B	C1402	A C 6F	C1454	A C 5C	C1623	B C 2E	C1808	A C 7D	D1403	B C 4F	Q1303	B C 7C	R1051	A C 5C	R1311	A C 6C	R1430	B C 6D	R1475	A C 4D	R1632	A C 2D	R2101	A C 1D	K1007	B C 3F	K1515	A C 3B	K2201	A C 3B	RA1619	A C 2D		
C1041	A C 4C	C1115	B C 2A	C1403	B C 1C	C1455	B C 3C	C1624	B C 2D	C1809	A C 7D	D2101	A C 1C	Q1304	B C 7D	R1054	A C 4B	R1312	A C 6C	R1431	B C 6D	R1476	A C 4C	R1653	A C 3E	R2102	A C 1C	K1008	B C 4F	K1516	A C 3B	K2202	A C 3A	RA1620	A C 3D		
C1042	B C 6A	C1116	B C 3B	C1404	A C 6E	C1456	B C 6D	C1625	B C 3D	C1810	A C 7D	D2201	A C 4B			R1055	A C 5B	R1313	A C 6C	R1432	B C 6D	R1477	B C 4C	R1654	A C 3D	R2103	A C 1D	K1009	B C 3F	K1517	A C 3B	K2203	A C 3B	RA1621	A C 3D		
C1043	B C 6B	C1117	B C 4A	C1405	A C 5E	C1457	B C 6F	C1626	B C 3E	C1811	A C 6D			**RESISTOR**		R1056	A C 5B	R1314	A C 6C	R1433	A C 4C	R1478	A C 3C	R1655	A C 3D	R2104	A C 1D	K1010	B C 3F	K1518	A C 3B	K2204	A C 3A	RA1622	A C 2D		
C1044	B C 6B	C1118	B C 5A	C1406	A C 5D	C1459	B C 5F	C1627	B C 2E	C1812	A C 6D	**IC**		R1001	B C 5B	R1057	A C 5B	R1315	A C 6C	R1434	B C 4F	R1479	A C 4D	R1656	A C 3C	R2105	A C 1D	K1011	B C 3F	K1519	A C 3B	K2205	A C 3B	RA1623	A C 2C		
C1045	B C 5B	C1119	B C 5A	C1408	A C 6F	C1460	A C 6C	C1628	B C 1E	C1813	A C 6D	IC1001	B C 4B	R1002	A C 3C	R1059	A C 5B	R1316	A C 6C	R1435	B C 4F	R1480	A C 4C	R1657	A C 3E	R2106	A C 1D	K1012	B C 3F	K1520	A C 3B	K2206	A C 3A	RA1624	A C 3C		
C1046	B C 5B	C1120	B C 7D	C1409	A C 6F	C1461	A C 5C	C1629	B C 3D	C1814	A C 7D	IC1002	B C 5B	R1003	A C 4C	R1060	B C 4B	R1317	A C 6B	R1436	B C 7E	R1481	A C 4C	R1658	A C 3D	R2107	A C 1D	K1013	B C 3F	K1521	A C 3B	K2207	A C 3B	RA1625	A C 3E		
C1047	B C 6C	C1121	A C 6B	C1411	A C 6E	C1462	A C 5D	C1630	B C 2D	C1815	A C 6E	IC1201	A C 4E	R1004	B C 1E	R1061	B C 4B	R1318	B C 7C	R1437	B C 4F	R1483	A C 4C	R1659	A C 3D	R2108	A C 1D	K1014	B C 3F	K1522	A C 3B	K2208	A C 3A	RA1626	A C 3E		
C1048	A C 5E	C1122	A C 6C	C1412	A C 4C	C1463	A C 5D	C1631	B C 2D	C1816	B C 6E	IC1202	A C 2F	R1005	A C 4C	R1062	A C 6B	R1319	B C 7C	R1438	B C 4F	R1485	B C 5C	R1660	A C 3C	R2109	A C 1C	K1015	B C 3F	K1523	A C 3B	K2209	A C 3B	RA1627	A C 3E		
C1049	A C 5E	C1123	A C 5C	C1413	A C 5D	C1464	A C 6E	C1632	B C 2C	C1901	B C 7B	IC1203	A C 2F	R1006	A C 5B	R1063	A C 5B	R1320	B C 7C	R1439	B C 4F	R1486	B C 5C	R1801	A C 7D	R2110	A C 1C	K1016	B C 7E	K1524	A C 3B	K2210	A C 3A	RA1628	B C 3E		
C1050	A C 6E	C1124	B C 7E	C1414	A C 3F	C1465	A C 4D	C1633	B C 3C	C1902	B C 6C	IC1301	A C 7C	R1007	A C 4C	R1064	A C 5C	R1321	B C 7C	R1440	B C 6F	R1487	B C 5C	R1802	A C 7D	R2111	A C 1C	K1017	B C 2F	K1525	A C 3B	K2211	A C 3B	RA1629	A C 2C		
C1051	A C 5F	C1203	A C 4F	C1415	A C 4C	C1466	A C 3C	C1634	B C 3D	C1903	B C 6C	IC1401	B C 5D	R1009	B C 5C	R1065	A C 5B	R1401	B C 6C	R1441	B C 4F	R1488	B C 5C	R1803	A C 6D	R2112	A C 1C	K1018	B C 2F	K1526	A C 3B	K2212	A C 3A	RA1630	B C 2C		
C1052	A C 5F	C1204	A C 4F	C1416	A C 5C	C1467	A C 5D	C1635	B C 2D	C1905	B C 6C	IC1404	B C 7F	R1010	B C 3C	R1066	A C 6B	R1402	A C 4C	R1443	B C 4F	R1489	B C 5C	R1804	A C 6D	R2113	A C 1C	K1019	B C 2F	K1527	A C 3B	K2213	A C 3B	RA1631	B C 2C		

■ DEMOD CIRCUIT BOARD

<14>DEMOD

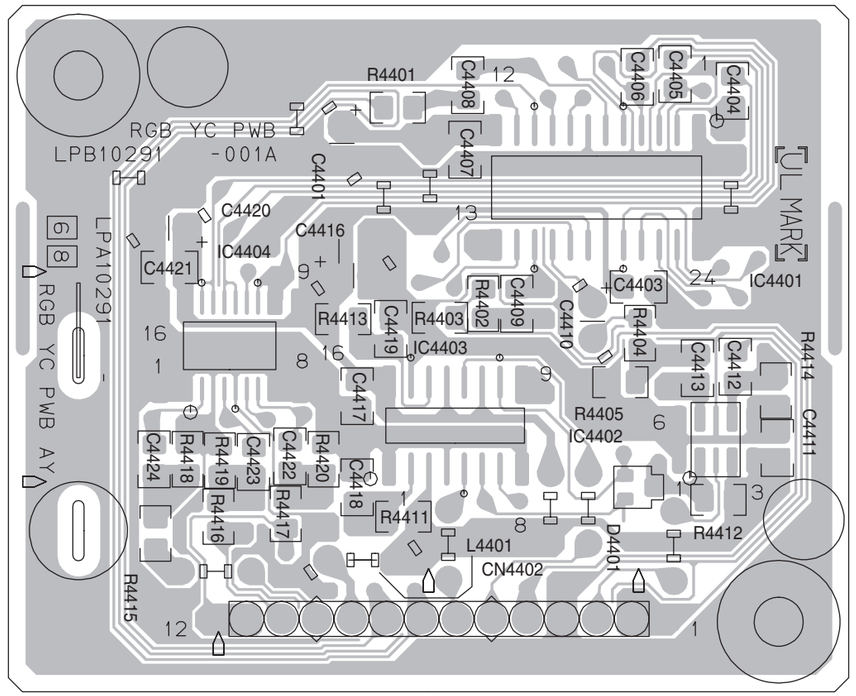


COMPONENT PARTS LOCATION GUIDE <DEMOD>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C6715	A D 4C	D6701	A D 4B	R6703	B C 1A	R6720	B C 2C
C6701	B C 1A	C6716	B C 3C			R6704	B C 1B	R6721	B C 2C
C6702	B C 2A	C6717	A D 4C	**IC**		R6705	B C 2A		
C6703	B C 1B	C6718	B C 3C	IC6701	B C 3B	R6706	B C 2B	**OTHER**	
C6704	B C 1B	C6719	A D 3C			R6707	B C 1B	K6701	B C 2B
C6705	B C 2B	C6720	A D 2C	**COIL**		R6708	B C 3A	K6702	B C 2B
C6706	B C 2B	C6721	B C 2C	L6701	A D 1A	R6709	B C 3A	K6705	B C 4B
C6707	B C 2B	C6722	A D 1C	L6702	A D 1B	R6710	B C 4A	K6706	B C 3D
C6708	B C 2A	C6723	B C 2C			R6711	B C 4B	K6707	B C 2B
C6709	B C 2A	C6724	A D 2C	**TRANSISTOR**		R6712	B C 4C	K6708	B C 2A
C6710	B C 2A			Q6701	B C 1B	R6713	B C 4C	X6701	A D 2B
C6711	B C 3A	**CONNECTOR**				R6714	B C 3C		
C6712	B C 4B	CN6701	A D 3A	**RESISTOR**		R6715	B C 3C		
C6713	B C 4B			R6701	B C 1A	R6716	B C 4C		
C6714	B C 4C	**DIODE**		R6702	B C 2A	R6719	A D 2A		

■ RGB YC CIRCUIT BOARD

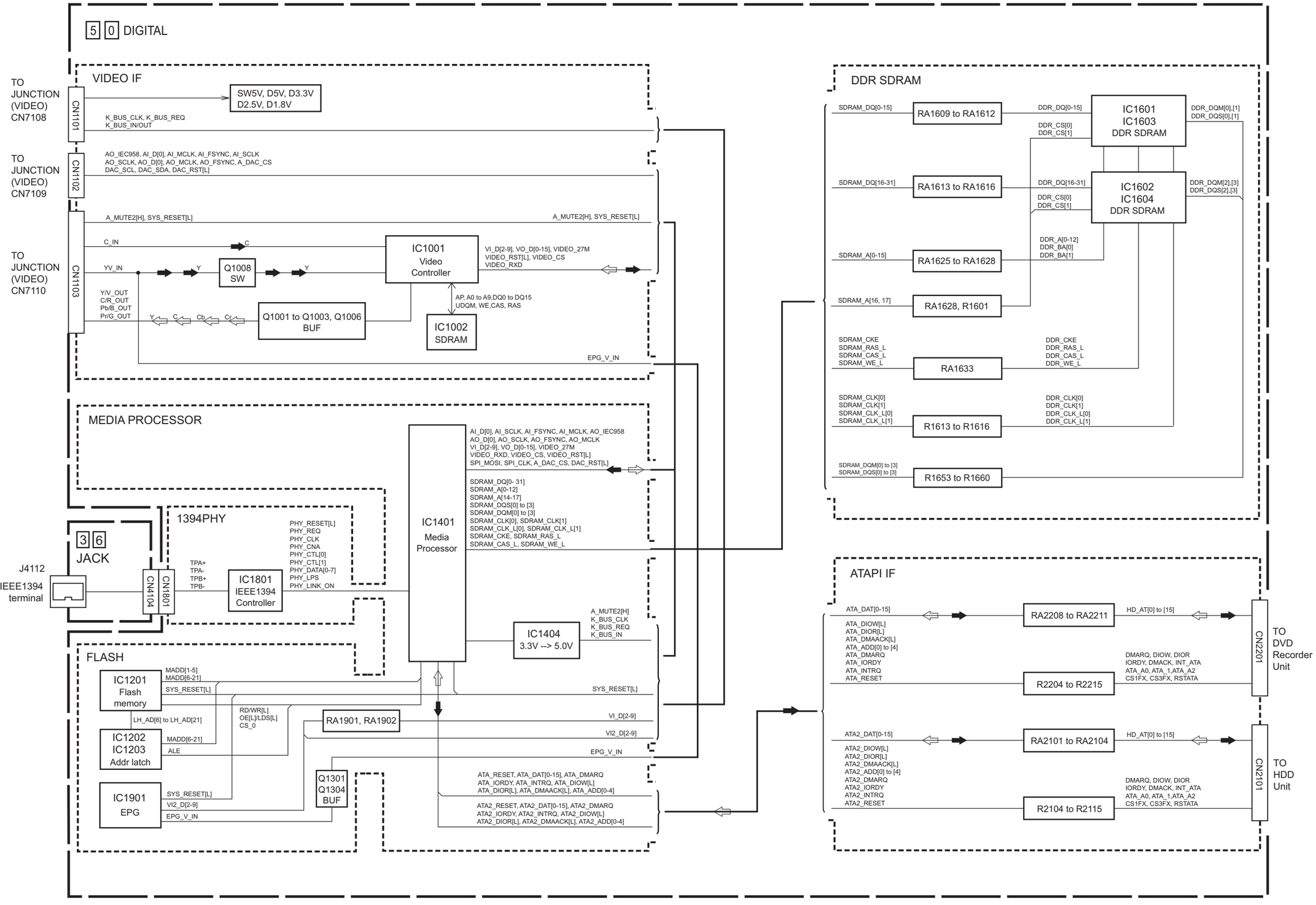
<68>RGB YC



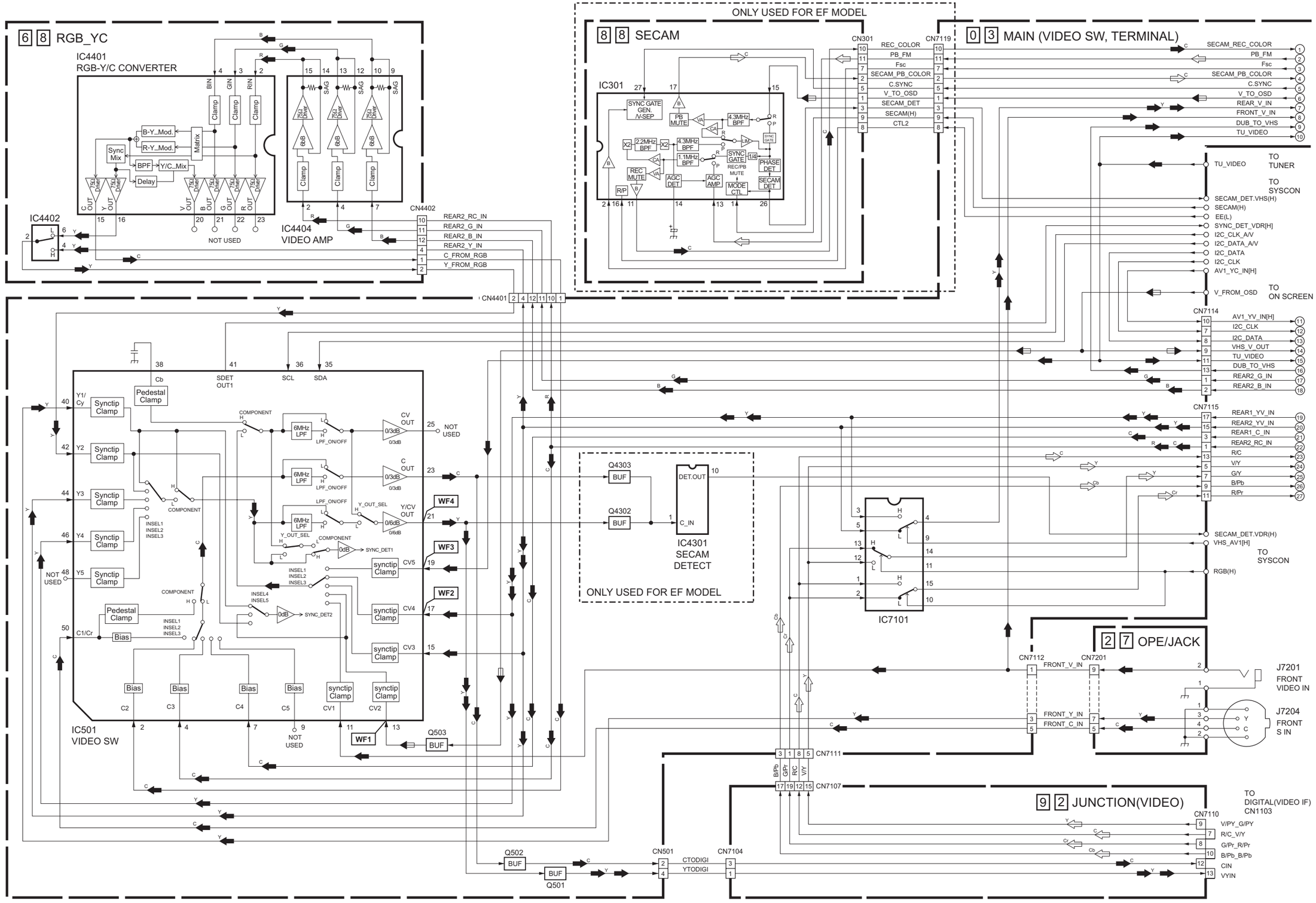
COMPONENT PARTS LOCATION GUIDE <RGB YC>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4413	B C 4B	CN4402	A D 3A	L4401	A D 2A	R4415	B C 1A
C4401	A D 2C	C4416	A D 2B					R4416	B C 2A
C4403	B C 4B	C4417	B C 2B	**DIODE**		**RESISTOR**		R4417	B C 2A
C4404	B C 4C	C4418	B C 2A	D4401	B C 4A	R4401	B C 2C	R4418	B C 1B
C4405	B C 4C	C4419	B C 2B			R4402	B C 3B	R4419	B C 2B
C4406	B C 3C	C4420	A D 1C	**IC**		R4403	B C 3B	R4420	B C 2B
C4407	B C 3C	C4421	B C 1C	IC4401	B C 3C	R4404	B C 4B		
C4408	B C 3C	C4422	B C 2B	IC4402	B C 4B	R4405	B C 3B		
C4409	B C 3B	C4423	B C 2B	IC4403	B C 3B	R4411	B C 2A		
C4410	A D 3B	C4424	B C 1B	IC4404	B C 2B	R4412	B C 4A		
C4411	B C 4B					R4413	B C 2B		
C4412	B C 4B	**CONNECTOR**		**COIL**		R4414	B C 4B		

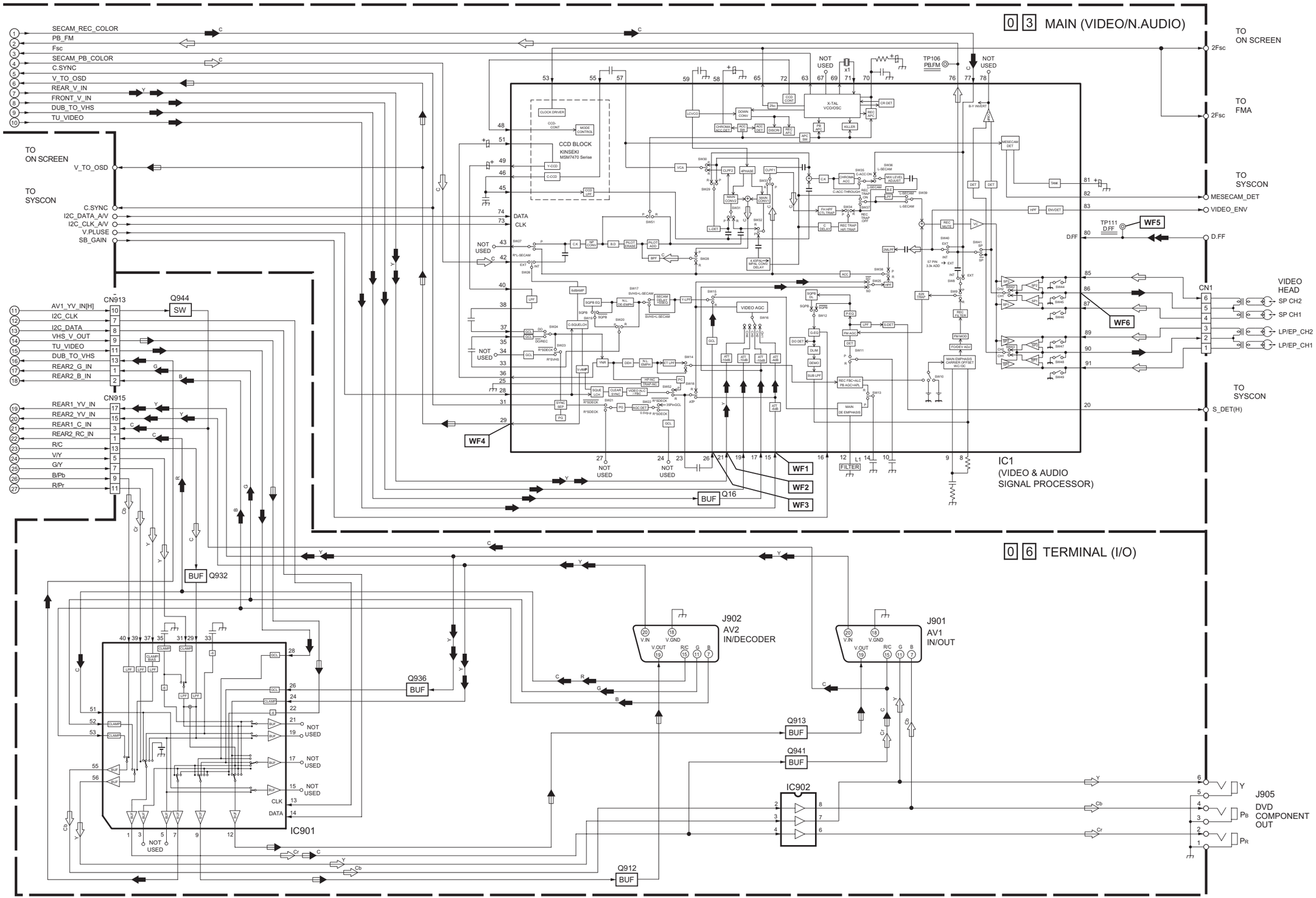
■ DIGITAL BLOCK DIAGRAM



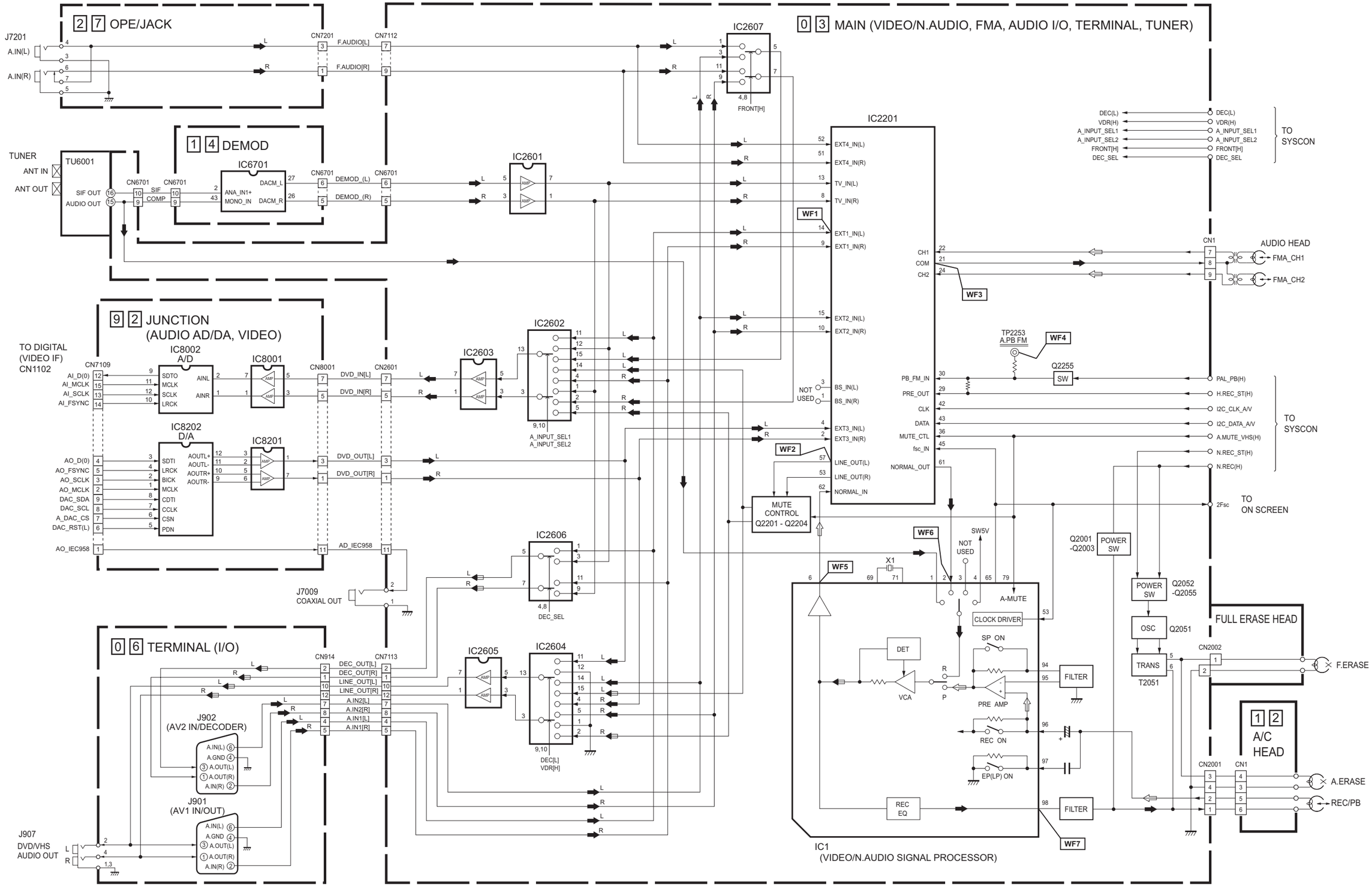
■ VIDEO BLOCK DIAGRAM (1)



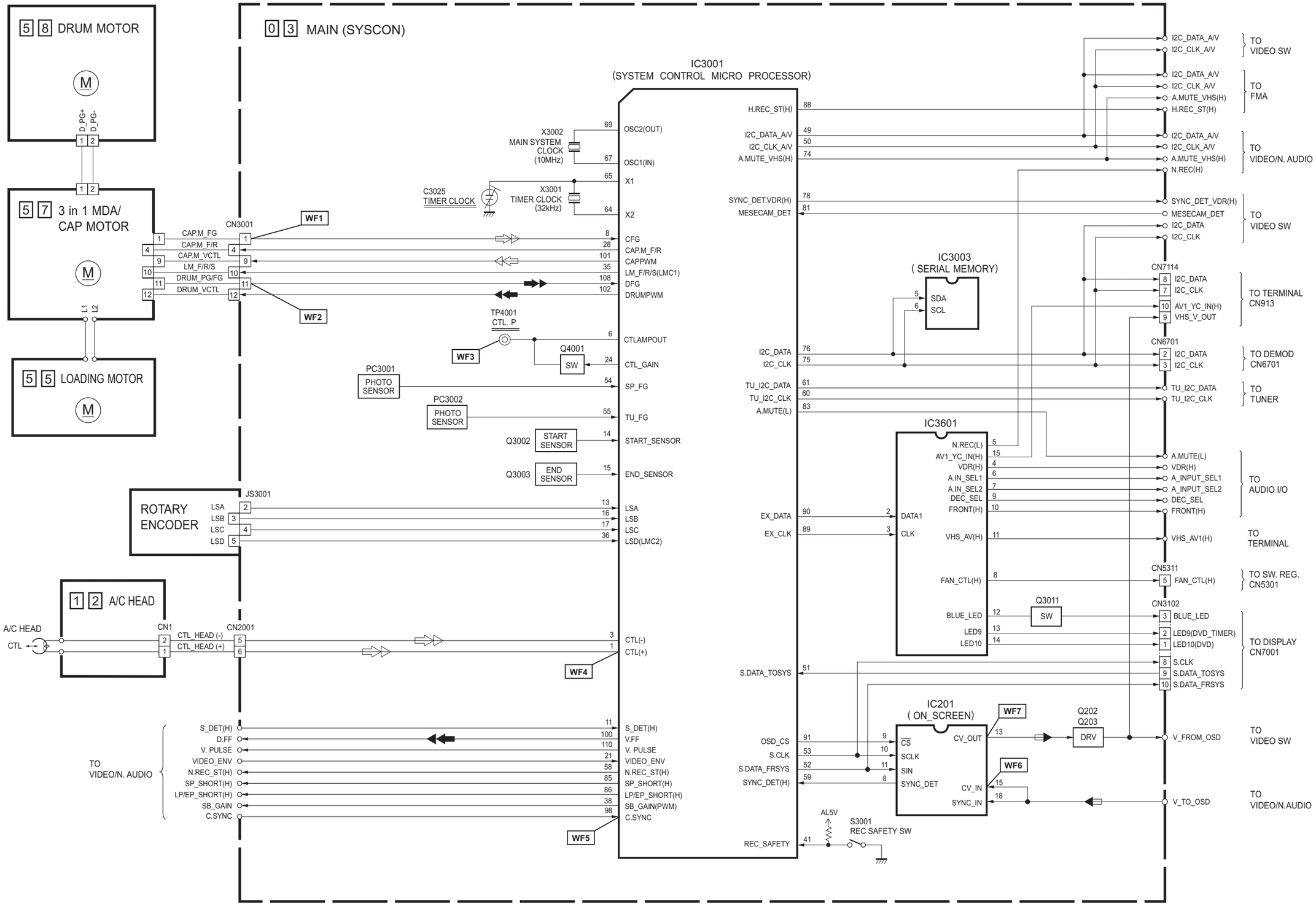
■ VIDEO BLOCK DIAGRAM (2)



■ AUDIO BLOCK DIAGRAM



■ SYSTEM CONTROL BLOCK DIAGRAM



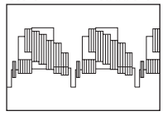
■ CPU PIN FUNCTION

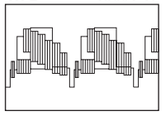
<SYSCON IC3001>

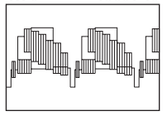
PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL[+]	IN/OUT	CTL(+) SIGNAL
2	SVss	-	GND
3	CTL[-]	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMPOUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE OUTPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVcc	-	SYSTEM POWER
10	Avcc	-	SYSTEM POWER
11	S_DET[H]	IN	NORMAL:H
12	SECAN_DET	IN	SECAN MODE DETECT
13	LSA	IN	MECHANISM MODE DETECT (A)
14	START_SENSOR	IN	START SENSOR
15	END_SENSOR	IN	END SENSOR
16	LSB	IN	MECHANISM MODE DETECT (B)
17	LSC	IN	MECHANISM MODE DETECT(C)
18	RF AGC	IN	CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE ARE INPUT.
19	SCR_ID	IN	SCRAMBLE CONTROL INPUT (SCRAMBLE : H)
20	AFC	IN	TUNING CHECK
21	VIDEO_ENV	IN	AUTO TRACKING DETECT/INPUT THE AVERAG OF PLAYBACK VIDEO SIGNAL
22	A.ENV/ND[L]	IN	AUDIO PB FM ENV.INPUT/NON HiFi MODE:L
23	Avss	-	GND
24	CTL_GAIN	OUT	CONTROL AMP OUT FREQUENCY RESPONSE SWITCHIN
25	A.MUTE_VDR[H]	OUT	AUDIO MUTE CONTROL FOR VDR(MUTE:H)
26	P.MUTE_VDR[H]	OUT	PICTURE MUTE CONTROL FOR VDR(MUTE:H)
27	SECAM_DET_VDR[H]	IN	SECAM MODE DETECT CONTROL FOR VDR
28	CAP.M_F/R	OUT	CAPSTAN MOTOR REVERSE CONTROL (FWD:L/REV:H)
29	RC_IN	IN	REMOTE CONTROL DATA INPUT
30	PROTECT	IN	DETECTION SIGNAL FOR SWITCHING POWERSUPPLY
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	TEST	-	CONNECTED TO GND
33	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR VDR(MUTE:L)
34	P50_OUT	OUT	CONTROL SIGNAL FOR TV LINK
35	LM_F/R/S[LMC1]	OUT	LOADING MOTOR DRIVE
36	LSD[LMC2]	IN	MECHANISM MODE DETECT (D)
37	RGB[H]	OUT	RGB MODE : H
38	SB_GAIN[PWM]	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	STB/TEST	OUT	CLOCK OUTPUT PERMISSION
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	REC_SAFTY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
42	HDD_P.CTL[H]	-	NOT USED
43	Vss	-	GND
44	DVD_P.CTL[H]	OUT	DVD POWER ON/OFF CONTRPL (POWER ON:H)
45	Vcc	-	SYSTEM POWER
46	KBUS_DATA_IN	IN	SERIAL DATA TRANSFER INPUT FROM DVD CPU
47	KBUS_DATA_OUT	OUT	SERIAL DATA TRANSFER OUTPUT TO DVD CPU
48	KBUS_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU
49	12C_DATA_A/V	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR A/V IC
50	12C_CLK_A/V	OUT	SERIAL DATA TRANSFER CLOCK FOR A/V IC
51	S.DATA_TOSYS	IN	SERIAL DATA TRANSFER OUTPUT FROM THE ON-SCREEN TO THE FDP DRIVER
52	S.DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN
53	S.CLK	OUT	SERIAL DATA TRANSFERMER CLOCKFOR ONSCREEN IC
54	SP_FG	IN	DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN
55	TU_FG	IN	DETECTION SIGNAL TAKE-UP REEL ROTATION/TAPE REMAIN
56	KBUS_REQ[IN]	OUT	SERIAL DATA TRANSFER REQUEST TO DVD CPU
57	P.ON_PULSE	OUT	POWER ON/OFF PULSE OUTPUT
58	N.REC_ST[H]	OUT	NORMAL AUDIO SOUND RECORDINGSTART
59	SYNC_DET[H]	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED : H)
60	TU_I2C_CLK	OUT	CLOCK OUTPUT TO TUNER
61	TU_I2C_DATA	OUT	DATA OUT PUT TO TUNER
62	FWE	-	FLASH WRITE ENABLE
63	NMI	-	NOT USED
64	X2	-	TIMER CLOCK(32kHz)
65	X1	-	TIMER CLOCK(32kHz)
66	RES	-	RESET TERMINAL(RESET ON:L)
67	OSC1[IN]	IN	MAIN SYSTEM CLOCK(10MHz)
68	Vss	-	GND
69	OSC2[OUT]	IN	MAIN SYSTEM CLOCK(10MHz)
70	Vcc	-	SYSTEM POWER
71	MODE	-	NOT USED
72	AD_IN_MUTE[L]	OUT	MUTE CONTROL SIGNAL TO A/D CONVERTER IC
73	TU_V.MUTE[H]	OUT	TUNER VIDEO SIGNAL MUTE : H
74	A.MUTE_VHS[H]	OUT	AUDIO MUTE CONTROL FOR VHS(MUTE:H)
75	12C_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	12C_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	SECAN[H]	IN	SECAN MODE :H
78	SYNC_DET_VDR[H]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR VDR (DETECTED : H)
79	PAL_PB[H]	IN	PAL FM (PB ON:H)
80	I.MUTE[L]	OUT	INTERLACE VIDEO SIGNAL MUTING CONTROL OUTPUT
81	MESECAN_DET	OUT	MESECAM:H
82	Vcc	-	SYSTEM POWER
83	A.MUTE[L]	OUT	AUDIO MUTE CONTROL (MUTE:L)
84	Vss	-	GND
85	SP_SHORT[H]	OUT	MODE SELECT
86	LP_SHORT[H]	OUT	MODE SELECT
87	DEC[L]	OUT	DECODER SELECT
88	H.REC_ST[H]	OUT	HiFi AUDIO SOUND RECORDING START
89	EXP_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR EXPANDER IC(IC3601)
90	EXP_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR EXPANDER IC(IC3601)
91	OSD_CS	OUT	ONSCREEN IC CHIP SELECT
92	E5_RESET	OUT	RESET OUTPUT TO IC1401
93	ADC_RST[L]	OUT	STEREO A/D CONVERTER RESET PULSE
94	SW1	OUT	TV RF SYSTEM SELECT-1
95	SW2	OUT	TV RF SYSTEM SELECT-2
96	P.SAVE[L]	OUT	POWER SAVE MODE : L
97	P.CTL[H]	OUT	POWER ON/OFF CONTRPL (POWER ON:H)
98	C.SYNC	IN	COMPOSITE SYNC INPUT
99	A.FF	OUT	AUDIO FF OUTPUT
100	V.FF	OUT	ROTATION DETECTION SIGNAL FOR DRUM MOTOR/TIMING CONTROL SIGNAL FOR REC
101	CAPPWM	OUT	CAPSTAN MOTOR CONTROL
102	DRUMPWM	OUT	DRUM MOTOR CONTROL
103	RAPID_IN	IN	RAPID CONTROL
104	RGB_IN[H]	OUT	RGB SIGNAL INPUT MODE : H
105	P.MUTE_VHS[L]	OUT	PICTURE MUTE CONTROL FOR VHS (MUTE ON:L)
106	SEPA_IN[L]	OUT	Y/C SEPARATE INPUT MODE
107	EE[L]	OUT	EE MODE:L
108	DFG	IN	DRUM FG PULSE INPUT
109	Vcc	-	SYSTEM POWER
110	V.PULSE	OUT	V.PULSE ADDITION TIMING CONTROL
111	Vss	-	GND
112	CTLREF	-	CTL REFERENCE VOLTAGE

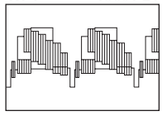
■ WAVEFORMS

VIDEO BLOCK DIAGRAM(1)

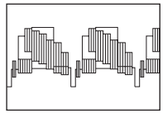
WF1 IC501-13

REC/PB 1.0Vp-p
0.5V/20µsec/DIV

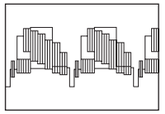
WF2 IC501-17

REC 1.0Vp-p
0.5V/20µsec/DIV

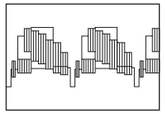
WF3 IC501-19

REC 1.0Vp-p
0.5V/20µsec/DIV

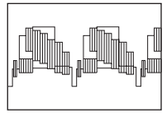
WF4 IC501-21

REC 1.0Vp-p
0.5V/20µsec/DIV

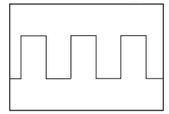
VIDEO BLOCK DIAGRAM(2)

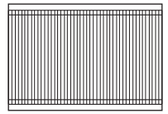
WF1 IC1-15

REC 1.0Vp-p
0.5V/20µsec/DIV

WF2 IC1-21

REC 1.0Vp-p
0.5V/20µsec/DIV

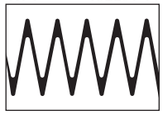
WF3 IC1-26

REC 0.5Vp-p
0.2V/20µsec/DIV

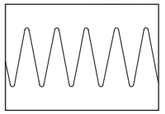
WF4 IC1-29

REC/PB 2.2Vp-p
0.5V/20µsec/DIV

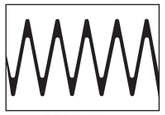
WF5 TP111 D.FF

REC/PB 3.4Vp-p
1.0V/10msec/DIV

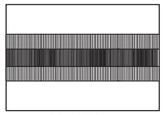
WF6 IC1-86

REC 1.4Vp-p
0.5V/20µsec/DIV

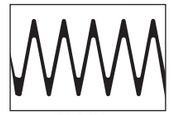
AUDIO BLOCK DIAGRAM

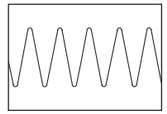
WF1 IC2201-14

REC 30mVp-p
10mV/0.2msec/DIV

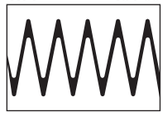
WF2 IC2201-57

REC/PB 0.3Vp-p
0.1V/0.2msec/DIV

WF3 IC2201-21

REC 1.3Vp-p
0.5V/0.5µsec/DIV

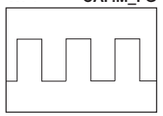
WF4 TP2253 A.PB FM

PB 0.7Vp-p
0.5V/5µsec/DIV

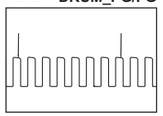
WF5 IC1-6

PB 0.2Vp-p
50mV/0.5msec/DIV

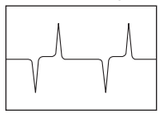
WF6 IC1-2

REC 16mVp-p
10mV/1msec/DIV

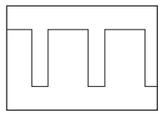
WF7 IC1-98

REC 0.3Vp-p
0.1V/0.5msec/DIV

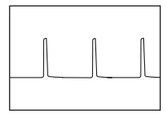
SYSTEM CONTROL BLOCK DIAGRAM

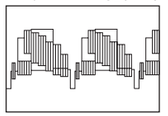
WF1 CN3001-1 CAP.M_FG

REC/PB 4.8Vp-p
1.0V/0.2msec/DIV

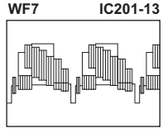
WF2 CN3001-11 DRUM_PG/FG

REC/PB 4.8Vp-p
1.0V/2msec/DIV

WF3 TP4001 CTL.P

PB 2.5Vp-p
0.5V/10msec/DIV

WF4 IC3001-1

REC 3.6Vp-p
1.0V/10msec/DIV

WF5 IC3001-98

REC 4.8Vp-p
1.0V/20µsec/DIV

WF6 IC201-15

REC/PB 2.1Vp-p
0.5V/20µsec/DIV

WF7 IC201-13

REC/PB 2.1Vp-p
0.5V/20µsec/DIV

■ VOLTAGE CHARTS

<SWITCHING REGULATOR>

MODE PIN NO.	REC	PLAY
IC5101		
1	305.6	305.5
2	0	0
3	0	0
4	17.8	17.8
5	2.6	2.6
IC5301		
1	4.6	4.6
2	0	0
3	2.5	2.5
IC5302		
1	5.4	5.0
2	0	0
3	0	0
4	3.4	3.4
5	4.4	4.4
6	0	0
7	0	0
8	5.8	5.7
Q5303		
E	51.2	51.3
C	51.2	51.3
B	0	0
Q5304		
E	0	0
C	0	0
B	4.1	4.1
Q5305		
E	11.2	12
C	12.0	12
B	11.8	11.9
Q5306		
E	5.0	5.1
C	5.7	5.7
B	5.8	5.8
Q5307		
E	7.0	7.0
C	7.0	7.0
B	6.3	6.3
Q5308		
E	0	0
C	0	0
B	2.5	2.5
Q5313		
E	12	12
C	12	12
B	11.3	11.3
Q5315		
E	0	0
C	0	0
B	4.5	4.5
CN5001		
1	226	226
2	226	226
CN5301		
1	5.0	5.0
2	11.2	12.0
3	32.3	5.0
4	51.3	11.1
5	2.5	2.5
6	4.1	4.1
7	0	0
8	0	0
9	4.8	4.8
10	5.7	5.7
11	-7.1	-7.1
12	12.0	12.0
13	0	0
14	12.1	12.0
15	0	0
CN5302		
1	0	0
2	7.0	7.0
CN5303		
1	12.0	12.0
2	0	0
3	0	0
4	5.0	4.9
CN5304		
1	11.2	11.1
2	12.0	11.9
3	-7.2	-7.2
4	12.0	11.9
5	4.1	4.1
6	4.8	4.8
7	4.5	4.4
8	0	0
9	0	0
10	5.7	5.6
11	0	0
12	0	0
13	0	0
14	0	0
15	-15.9	-15.9
16	5.7	5.7
17	-19.4	-19.4
18	5.7	5.7

MODE PIN NO.	REC	PLAY
19	-30.8	-30.8

<MAIN>

MODE PIN NO.	REC	PLAY
IC1		
1	0	0
2	0	0
3	0	0
4	5.0	5.0
5	2.1	2.1
6	2.6	2.6
7	2.8	2.9
8	0	1.4
9	1.9	1.3
10	2.3	2.0
11	2.6	3.0
12	1.5	0.6
13	0	0
14	2.8	2.3
15	2.8	2.8
16	0	3.3
17	2.8	2.8
18	2.0	1.8
19	2.8	2.8
20	0.1	0
21	2.8	2.8
22	5.0	5.0
23	2.3	2.3
24	0.1	0
25	0	0
26	3.0	2.8
27	0.1	0
28	0	0
29	2.4	2.4
30	2.9	2.9
31	0.4	0.4
32	2.3	2.3
33	2.1	0
34	1.8	1.8
35	3.0	3.0
36	2.3	2.3
37	3.0	3.0
38	2.2	2.2
39	1.5	1.5
40	2.1	2.1
41	2.6	2.6
42	2.0	2.0
43	2.1	2.1
44	0	0
45	3.0	3.0
46	3.1	3.1
47	5.0	5.0
48	0.1	0.1
49	3.3	3.3
50	5.0	5.0
51	2.0	2.0
52	5.0	5.0
53	2.7	2.7
54	0	0
55	1.9	1.4
56	0	0.1
57	2.2	2.2
58	2.3	2.3
59	5.0	5.0
60	4.9	5.0
61	0	0
62	2.3	2.2
63	2.2	2.2
64	2.5	2.7
65	2.3	2.3
66	2.7	2.6
67	0.1	0.1
68	1.3	1.2
69	2.0	2.0
70	2.8	1.8
71	2.2	2.2
72	0.1	0.1
73	4.7	4.7
74	4.7	4.7
75	2.8	2.9
76	2.3	2.2
77	2.9	2.9
78	0	0
79	0.6	2.5
80	2.6	2.4
81	4.9	4.8
82	0	0
83	0	1.9
84	4.9	4.9
85	2.4	2.3
86	2.4	2.3
87	2.4	2.3
88	0	0
89	0	0
90	0	0
91	0	0
92	5.0	5.0
93	0.2	0.2
94	2.6	2.5
95	2.6	2.5
96	2.5	2.5
97	0	0
98	2.4	2.6
99	0	0
100	2.6	2.6
IC201		
1	0	0
2	2.6	2.6
3	4.9	4.9
4	0	0
5	0	0
6	2.5	2.5
7	2.6	2.5
8	5.0	5.0
9	3.2	3.1
10	4.2	4.2
11	2.0	1.9
12	5.0	5.0
13	2.4	2.3
14	0	0
15	2.4	2.4
16	2.4	0.2
17	5.0	5.0
18	2.9	2.6
19	0	0
20	5.0	5.0
21	5.0	5.0
22	3.6	3.6
23	5.0	5.0
24	5.0	5.0
IC501		
1	0	0
2	2.9	2.9
3	5.0	4.9
4	2.9	2.9
5	0	0
6	0	0
7	2.9	2.8
8	2.9	2.9
9	2.9	2.9
10	0	0
11	1.3	1.3
12	5.0	4.9
13	1.8	1.8
14	0	0
15	1.3	1.3
16	0	0
17	1.8	1.8
18	0	0
19	2.8	2.8
20	0	1.2
22	0	0
23	2.2	2.2
24	0	5.0
25	1.2	1.2
26	0.8	0.7
27	1.7	1.7
28	2.3	2.3
29	0	4.6
30	0	4.9
31	0	0
32	0	0
33	0	1.2
34	0	0
35	4.7	4.7
36	4.7	4.7
37	0	5.0
38	2.9	2.9
39	0	0
40	1.3	1.3
41	5.0	5.0
42	1.6	1.6
43	5.0	5.0
44	1.3	1.3
45	0	0
46	1.8	1.8
47	4.9	5.0
48	1.4	1.4
49	0	0
50	0	2.9
51	0	0
52	0	0
IC2201		
1	2.4	2.4
2	0	0
3	0	2.4
4	2.5	0
5	2.0	0
6	0	2.5
7	0	2.2
8	0	0
9	0	0
10	2.0	0
11	0	0
12	0	2.1
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	2.5	0.5
21	2.5	0
22	2.5	0.7
23	0	0
24	2.5	0.7
25	4.9	5.0
26	2.6	0
27	0	2.7
28	4.2	2.6
29	4.1	1.8
30	3.9	1.7
31	1.0	2.0
32	2.5	2.5
33	2.5	2.5
34	0.5	0.6
35	2.5	2.5
36	0	0
37	1.7	1.7
38	0	0
39	0	0
40	5.0	5.0
41	0	0
42	4.7	4.7
43	4.7	4.7
44	3.3	3.3
45	0	0
46	4.8	4.8
47	2.5	2.5
48	2.5	2.5
49	0.1	0.2
50	0.3	0.2
51	0	0
52	0	0
53	4.4	4.4
54	0	0
55	0	0
56	0	0
57	4.5	4.4
58	11.1	11.1
59	4.5	4.5
60	0.1	0.1
61	2.5	2.5
62	2.4	2.4
63	4.4	4.4
64	4.5	4.5
IC2601		
1	0	0
2	0	0
3	0	0
4	-7.2	-7.2
5	0	0
6	0	0
7	0	0
8	11.1	11.1
IC2602		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-7.2	-7.2
8	0	0
9	5.0	5.0
10	5.0	5.0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	6.5	6.5
IC2603		
1	0	0
2	0	0
3	0	0
4	-7.2	-7.2
5	0	0
6	0	0
7	0	0
8	11.1	0
IC2604		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-7.2	0
8	0	0
9	4.9	4.9
10	0	0
11	0	0
12	0	0
IC2605		
1	6.5	6.5
2	0	0
3	0	0
4	-7.2	-7.2
5	0	0
6	0	0
7	0	0
8	11.1	11.2
IC2606		
1	7.3	7.4
2	0	0
3	7.2	7.3
4	3.5	3.5
5	6.6	6.7
6	0	0
7	6.6	6.7
8	3.5	1.5
9	7.3	7.3
10	11.1	11.1
11	7.3	7.3
12	0	0
IC2607		
1	7.3	7.3
2	0	0
3	7.3	7.3
4	0	0
5	6.7	6.7
6	0	0
7	67	6.7
8	0	0
9	7.2	7.3
10	11.1	11.2
11	7.3	7.3
12	0	0
IC3001		
1	2.6	2.5
2	0	0
3	1.8	2.4
4	2.5	2.5
5	0.1	0
6	2.6	2.6
7	2.5	2.5
8	2.6	2.6
9	2.5	2.5
10	2.5	2.5
11	2.6	2.6
12	0	0
13	0	0
14	4.8	4.6
15	4.8	4.8
16	0	4.9
17	0	0
18	3.9	3.9
19	0	0
20	4.4	4.5
21	0	1.8
22	0	2.5
23	0	0
24	4.8	4.9
25	0	0
26	0	0
27	0	0
28	0	0
29	4.6	0
30	4.5	4.6
31	4.9	4.9
32	0	0
33	4.9	4.9
34	6.7	0
35	2.5	2.4
36	4.6	4.9
37	0	0
38	0	3.3
39	3.0	2.9
40	0	0
41	4.9	4.9
42	4.8	4.9
43	0	0
44	4.8	4.9
45	4.9	4.9
46	0.1	0.1
47	0.7	0.5
48	4.4	4.2
49	4.7	4.7
50	4.7	4.7
51	4.7	4.8
52	1.4	1.2
53	4.1	4.1
54	-	-
55	-	0.2
56	-	2.2
57	0	0
58	4.9	0
59	5.0	5.0
60	4.9	4.9
61	4.9	4.9
62	0	0
63	0	0
64	1.5	1.3
65	0.7	0.9
66	4.9	5.0
67	-	-
68	0	0
69	-	-
70	0	4.9
71	4.9	4.9
72	0	4.9
73	4.9	4.9
74	0	0
75	0	3.7
76	-	3.3
77	0	0
78	5.0	0
79	4.9	4.9
80	4.9	4.9
81	0	0
82	4.9	4.9
83	4.9	4.9
84	4.9	0
85	0	0
86	4.6	4.6
87	4.9	4.9
88	4.8	0
89	0	0.1
90	0	0
91	2.9	2.9
92	0	0
93	4.9	4.9
94	0	0
95	4.9	4.9
96	4.9	4.8
97	4.8	4.8
98	0.4	0.4
99	0.2	2.5
100	2.6	2.6
101	2.5	2.5
102	2.7	2.7
103	5.0	5.0
104	0	0
105	4.9	4.9
106	4.9	4.9
107	0	4.9
108	1.3	1.3
109	4.9	4.9
110	0	0
111	0	0
112	2.5	2.5
IC3002		
1	4.9	4.9
2	4.9	4.9
3	0	0
4	0	0
IC3003		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.9	3.3
6	-	0
7	0	0
8	4.9	0
IC3601		
1	0	3.5
2	0.1	0
3	0	4.9
4	0	3.6
5	4.7	3.7
6	5.0	0
7	5.0	0
8	3.0	4.9
9	3.5	0
10	0	0
11	4.9	0.1
12	3.6	0
13	3.7	0
14	0	5.0
15	0	0
16	4.9	3.0
IC4201		
1	0	0
2	2.4	2.3
3	2.5	2.4
4	0	0
5	0	0
6	3.8	3.7
7	4.0	3.7
8	5.0	4.9
9	4.6	4.6
10	0	0
11	2.1	2.1
12	2.1	2.1
13	0.9	0.9
14	0.2	0.1
15	5.0	5.0
16	2.9	2.8
17	2.5	2.5
18	4.5	4.6
19	4.9	5.0
20	0	0
21	0	0
22	3.5	3.5
23	4.9	4.9
24	5.0	5.0
IC4202		
1	0	0
2	2.0	2.0
3	5.0	5.0
4	1.6	1.6
5	0	0
6	1.7	1.7
IC7101		
1	0.6	0.6
2	0	0.6
3	0	0.2
4	0.2	0.2
5	0	0
6	0	0
7	0	0
8	0	0
9	4.9	4.9
10	0	0
11	0	0
12	0	1.1
13	0.7	0.6
14	1.1	1.0
15	0.6	0.6
16	5.0	0
IC7501		
1	3.3	3.3
2	0.1	1.7
3	0.1	0
4	0	0
5	0	0
6	0	0
7	0	0
8	1.6	1.6
9	0	1.7
10	3.3	3.3
11	1.6	1.6
12	1.7	1.6
13	3.3	3.3
14	3.3	3.3
Q7		
E	2.4	2.2
C	2.4	2.2
B	0	0
Q8		
E	0	2.2
C	2.4	2.2
B	2.4	0
Q9		
E	0	0
C	0	0
B	0.8	0.7
Q10		
E	0	0
C	0	0
B	0.7	0.7
Q16		
E	2.7	2.7
C	0	0
B	2.1	2.1
Q202		
E	2.4	2.4
C	5.0	5.0
B	3.1	3.0
Q203		
E	3.1	3.0
C	0	0
B	2.4	2.4
Q501		
E	1.8	1.8
C	0	0
B	1.1	1.1
Q502		
E	1.7	1.7
C	4.9	5.0
B	2.3	2.3
Q503		
E	3.1	3.0
C	0	0
B	2.4	2.3
Q504		
E	0	0
C	2.3	2.3
B	0	0
Q2001		
E	-7.2	0
C	0	0
B	-14.7	0
Q2002		
E	-7.2	0
C	0	0
B	-14.5	0.7
Q2003		
E	5.0	5.0
C	-14.6	4.9
B	4.7	0
Q2051		
E	0.1	0
C	7.8	0
B	0.4	0.1
Q2052		
E	11.1	11.1
C	10.9	0.1
B	10.3	11.1
Q2053		
E	0	0
C	0	11.1
B	4.9	0
Q2054		
E	10.9	0
C	10.8	0.1
B	10.2	0.1
Q2055		
E	0	0
C	0	0.1
B	4.7	0
Q2201		
E	5.7	5.7
C	-0.1	0
B	5.7	5.7
Q2202		
E	0	0
C	5.7	5.7
B	0	0
Q2203		
E	0	0
C	0	0
B	0	0
Q2204		
E	0	0
C	0	0
B	0	0
Q2601		
E	0	0
C	0	0
B	4.7	0
Q2602		
E	0	0
C	0	0
B	0	0
Q2603		
E	5.2	5.2
C	-0.1	-0.1
B	4.9	4.9
Q2604		
E	0	0
C	0	0
B	0	0
Q2605		
E	0	0
C	0	0
B	0	0
Q2606		
E	5.2	5.2
C	0	0
B	4.9	4.9
Q3002		
E	0	0
C	4.8	4.6
B	-	-
Q3003		
E	0	0
C	4.6	4.7
B	-	-
Q3004		
E	0	0
C	0	4.7
B	0.8	0
Q3005		
E	5.0	4.9
C	5.7	5.7
B	5.6	5.6
Q3007		
E	0	0
C	4.7	4.7
B	0	0
Q3011		
E	0	0
C	0.2	0.1
B	3.6	3.6
Q3901		
E	0	0
C	4.9	4.9
B	0	0
Q4001		
E	0	0
C	0	0
B	4.8	4.8
Q4201		
E	2.1	2.1
C	4.9	5.0
B	2.4	2.4
Q6001		
E	5.0	5.1
C	5.7	5.7
B	5.7	5.7
Q6030		
E	2.9	2.9
C	0	0
B	3.3	0
Q7301		
E	0	0
C	5.0	5.0
B	0	0
Q7302		
E	5.0	4.9
C	0	0
B	5.0	5.0
CN1		
1	0	0
2	0	0
3	0	0
4	2.4	2.3
5	2.4	2.2
6	2.4	2.2
7	2.5	0
8	2.5	0
9	2.5	0
CN501		
1	0	0
2	1.7	1.7
3	0	0
4	1.8	1.8
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.2	2.5
6	2.3	2.5
CN2002		
1	0	0
2	0	0
CN2601		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	3.4	3.3
11	1.7	1.5
CN3001		
1	2.4	2.3
2	12.0	12.0
3	5.0	5.0
4	0	0
5	10.2	10.2
6	0	0
7	0	0
8	12.0	12.0
9	2.5	2.5
10	2.5	2.4
11	1.3	1.3
12	2.5	2.5
CN3102		
1	0	0
2	3.7	3.7
3	0.1	0.1
4	0.1	0.1
5	0	0
6	4.9	4.9
7	4.4	4.4
8	4.1	4.0
9	4.7	4.7
10	1.6	1.5
11	3.0	2.9
12	-19.4	-19.2
13	-28.2	-28.2
14	-16.0	-16.0
15	0	0
CN3103		
1	4.9	4.9
2	4.9	4.7
3	0	0
4	4.2	4.2
5	2.8	2.1
6	0.1	0.5
7	0.1	0
8	0	0
9	4.1	4.1
10	0	0
11	0	0
12	0	0
13	4.7	4.7
14	4.2	4.2
15	-16.0	-16.0
16	-19.3	-19.3
17	-28.2	-28.2
18	4.5	4.4
19	0	0
CN3901		
1	0	0
2	4.9	4.9
3	0	0
4	4.8	4.9
5	0.5	0.5
6	0.1	0.1
CN4401		
1	0	0
2	1.4	1.4
3	0	0
4	0	0
5	4.6	4.6
6	0	0
7	4.5	4.5
8	2.0	2.0
9	5.0	5.0
10	0	0
11	0	0
12	0	0
13	0.7	0.6
14	5.0	5.0
15	0	0
16	0	0
17	0.1	0.2
18	0	0
19	2.3	2.3

<OPERATION/JACK>

MODE PIN NO.	REC	PLAY
CN7201		
1	-0.1	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
CN7202		
1	-0.1	0
2	0	0.1
3	-0.1	-0.1
4	0	0

<SWITCH/DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
Q7001		
E	0	0
C	0	0
B	0	0
Q7002		
E	0	0
C	0	0
B	0	-0.1
Q7003		
E	0	0
C	0	0
B	0	0

<DV JACK>

MODE PIN NO.	REC	PLAY
CN4104		
1	0	0
2	0	0
3	0	0
4	0	0.1
5	0	0
6	0	0
7	0	0
8	-0.2	0
9	0	0

<JUNCTION>

MODE PIN NO.	REC	PLAY
IC5502		
1	4.9	4.8
2	4.8	4.8
3	5.4	5.4
4	4.6	4.6
5	3.3	3.3
6	5.0	5.0
7	0	0
8	0	0
IC5503		
1	5.1	5.1
2	0	0
3	0	0
4	3.4	3.4
5	4.9	4.8
6	0	0
7	0	0
8	5.7	5.7
IC8001		
1	0	0
2	0	0
3	0	0
4	-7.2	9.7
5	0	0
6	0	0
7	0	0
8	9.7	-7.2
IC8002		
1	2.5	2.5
2	0	0
3	0	0
4	2.5	0
5	0	0
6	4.9	0
7	0	0
8	0	0
9	1.2	1.2
10	1.7	1.7
11	1.7	1.7
12	0	1.7
13	3.1	0
14	0	0
15	0	0
16	0	0
IC8201		
1	0	0
2	1.3	1.3
3	1.3	1.2
4	-7.2	-7.2
5	1.3	1.3
6	1.3	0.1
7	0	0
8	9.7	9.8
IC8202		
1	1.7	1.7
2	0	0
3	0	0
4	0.8	0.9
5	-0.1	0
6	0	-0.1
7	5.6	5.6
8

■ VOLTAGE CHARTS

<DEMOD>

MODE PIN NO.	REC	PLAY
IC6701		
1	4.2	4.2
2	0	1.5
3	1.5	1.4
4	0	0
5	2.0	1.9
6	0	0
7	0	0
8	0	0
9	0	0
10	3.6	3.6
11	0	0
12	4.1	3.6
13	3.9	3.9
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0.2
19	5.0	5.0
20	0	0
21	0	0
22	4.3	4.3
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	2.3	2.3
31	2.3	2.3
32	0	0
33	4.7	4.6
34	3.7	3.8
35	0	0
36	2.3	2.3
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	2.5	2.5
43	2.3	2.3
44	0	0
CN6701		
1	0	0
2	3.6	3.6
3	4.0	3.9
4	0	0
5	0	0
6	0	0
7	4.9	4.9
8	0	0
9	0	0
10	2.1	2.1

<RGB YC>

MODE PIN NO.	REC	PLAY
IC4401		
1	0	0
2	2.2	2.3
3	0	2.2
4	2.2	2.2
5	0	0
6	2.0	2.0
7	0	0
8	4.3	4.3
9	0	0
10	4.6	4.6
11	4.0	4.1
12	5.0	5.0
13	0	0
14	0	0
15	2.4	2.3
16	1.6	1.6
17	1.5	1.5
18	0	0
19	5.0	5.0
20	1.5	1.5
21	1.8	1.8
22	1.7	1.8
23	1.8	1.8
24	0	0
IC4402		
1	0.5	0.5
2	1.3	1.4
3	5.0	4.9
4	1.9	2.0
5	0	0
6	2.1	2.2
IC4403		
1	0	0
2	4.7	4.8
3	5.0	5.0
4	0	0
5	0	0
6	0.2	0.2
7	4.7	4.7
8	0	0
9	0.6	0.6
10	4.4	4.4
11	5.0	5.0
12	4.6	4.6
13	5.0	5.0
14	1.9	1.9
15	0	0
16	5.0	5.0
IC4404		
1	0	0
2	2.0	1.9
3	0	0
4	1.9	1.9
5	0	0
6	0	0
7	1.9	1.9
8	0	0
9	1.0	1.0
10	1.0	1.0
11	0	0
12	1.0	1.0
13	0.9	1.0
14	1.0	1.0
15	1.0	1.0
16	5.0	5.0
CN4402		
1	0	0
2	1.4	1.4
3	0	0
4	0	0
5	4.6	4.6
6	0	0
7	4.5	4.5
8	2.0	2.0
9	5.0	5.0
10	0	0
11	0	0
12	0	0

<TERMINAL>

MODE PIN NO.	REC	PLAY
IC901		
1	2.4	2.5
2	0	0
3	2.3	2.3
4	0	0
5	2.4	2.4
6	1.0	0.8
7	2.3	2.4
8	0	0
9	2.4	2.1
10	4.0	0
11	0	0
12	1.8	1.8
13	3.8	4.1
14	4.1	3.8
15	2.3	2.3
16	0	5.0
17	2.3	2.2
18	0	2.2
19	2.4	2.4
20	0	0
21	2.3	2.3
22	1.7	1.8
23	4.2	4.2
24	1.7	1.7
25	0.7	0
26	2.2	2.2
27	0	0
28	1.8	1.7
29	5.0	5.0
30	5.0	5.0
31	2.1	2.1
32	0	0
33	2.2	2.3
34	0	0
35	1.6	2.8
36	2.8	2.7
37	2.2	2.1
38	8.9	8.9
39	2.1	2.2
40	4.0	2.2
41	4.3	4.4
42	4.4	4.4
43	4.4	4.4
44	0	0
45	4.4	4.5
46	4.4	4.4
47	0	0
48	4.4	4.4
49	4.4	4.4
50	0	0
51	2.2	2.2
52	1.9	1.8
53	1.9	1.8
54	0	0
55	1.5	1.5
56	1.5	1.5
IC902		
1	0	0
2	1.6	1.6
3	1.5	1.5
4	2.4	2.4
5	5.0	4.9
6	2.3	2.4
7	1.5	1.5
8	1.5	1.5
Q901		
E	0.2	0
C	0	11.1
B	0.8	0
Q902		
E	0	10.7
C	11.2	11.2
B	0	11.1
Q903		
E	0	0
C	0.2	11.2
B	0	0
Q904		
E	0	0
C	0	0
B	0	0
Q905		
E	0	0
C	5.0	4.9
B	0	0
Q907		
E	0	0
C	0	0
B	0	0
Q908		
E	3.8	3.8
C	0	0
B	4.0	4.1
Q912		
E	3.0	3.0
C	0	0

MODE PIN NO.	REC	PLAY
B	2.4	2.3
Q913		
E	2.4	2.4
C	0	0
B	1.8	1.8
Q932		
E	2.4	2.4
C	0	0
B	3.1	3.1
Q933		
E	2.4	2.4
C	0	0
B	1.7	1.7
Q936		
E	3.2	3.2
C	0	0
B	2.5	2.5
Q941		
E	6.4	6.4
C	0	0
B	5.7	5.8
Q942		
E	0	0
C	0	0
B	8.4	8.4
Q943		
E	0	0
C	8.3	8.4
B	0	0
Q944		
E	0	0
C	6.4	6.4
B	0	0
CN913		
1	0	0
2	0	0
3	5.0	5.0
4	0	0
5	4.8	4.8
6	11.3	11.3
7	4.1	4.3
8	3.7	4.3
9	1.8	1.7
10	0	0
11	0.7	3.0
12	0	0
13	2.3	2.3
14	0	0
15	0	0
CN914		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
CN915		
1	0	0
2	0	0
3	6.1	6.3
4	0	0
5	0.5	0.6
6	0	0
7	0.6	0.6
8	0	0
9	0.5	0.6
10	0	0.2
11	0.5	0.6
12	0	0
13	0.4	0.7
14	5.1	5.0
15	0	0
16	0	0
17	0.2	0

<SECAM>

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	2.0	2.0
3	4.0	4.0
4	0.5	0.4
5	0	0
6	3.0	3.0
7	0	0
8	2.5	2.5
9	2.5	2.5
10	2.3	2.3
11	2.6	0.1
12	4.4	4.4
13	2.5	2.6
14	3.1	2.0
15	2.7	2.7
16	0	5.0
17	0.8	2.6
18	2.2	2.2
19	2.4	2.4
20	2.5	2.5
21	2.5	2.5
22	5.0	5.0
23	3.0	2.9
24	3.0	2.9
25	2.7	2.7
26	0.2	0.2
27	0.4	0.3
28	0.3	0
Q301		
E	2.5	2.5
C	2.4	2.5
B	1.9	4.9
Q302		
E	5.0	4.9
C	5.0	0.5
B	0	4.9
CN301		
1	2.2	2.2
2	0.8	2.6
3	0.1	0.1
4	0	0
5	0.4	0.3
6	5.0	5.0
7	2.8	2.7
8	0	4.9
9	0	0
10	2.6	0
11	2.3	2.1

JVC

Victor Company of Japan, Limited
Digital Video Storage Category 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

No.YD084SCH

Printed in Japan
VPT

PARTS LIST

[DR-MX10SE,DR-MX10SEF,DR-MX10SEK]

* SAFETY PRECAUTION
  Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
* BEWARE OF BOGUS PARTS
  Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.
* (x_) in a description column shows the number of the used part.

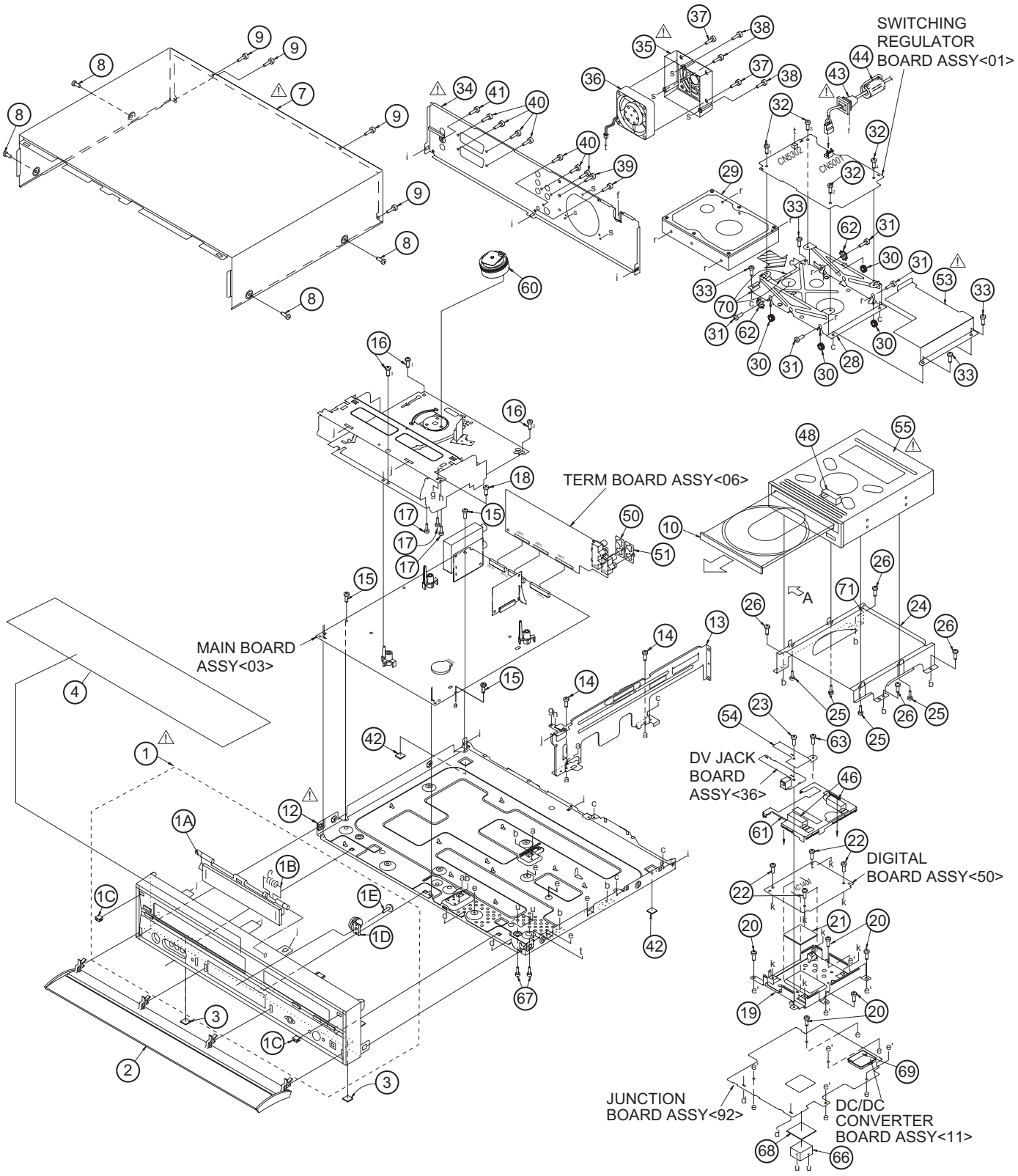
Area Suffix	
E	Continental Europe Northern Europe
EF	France
EK	U.K.

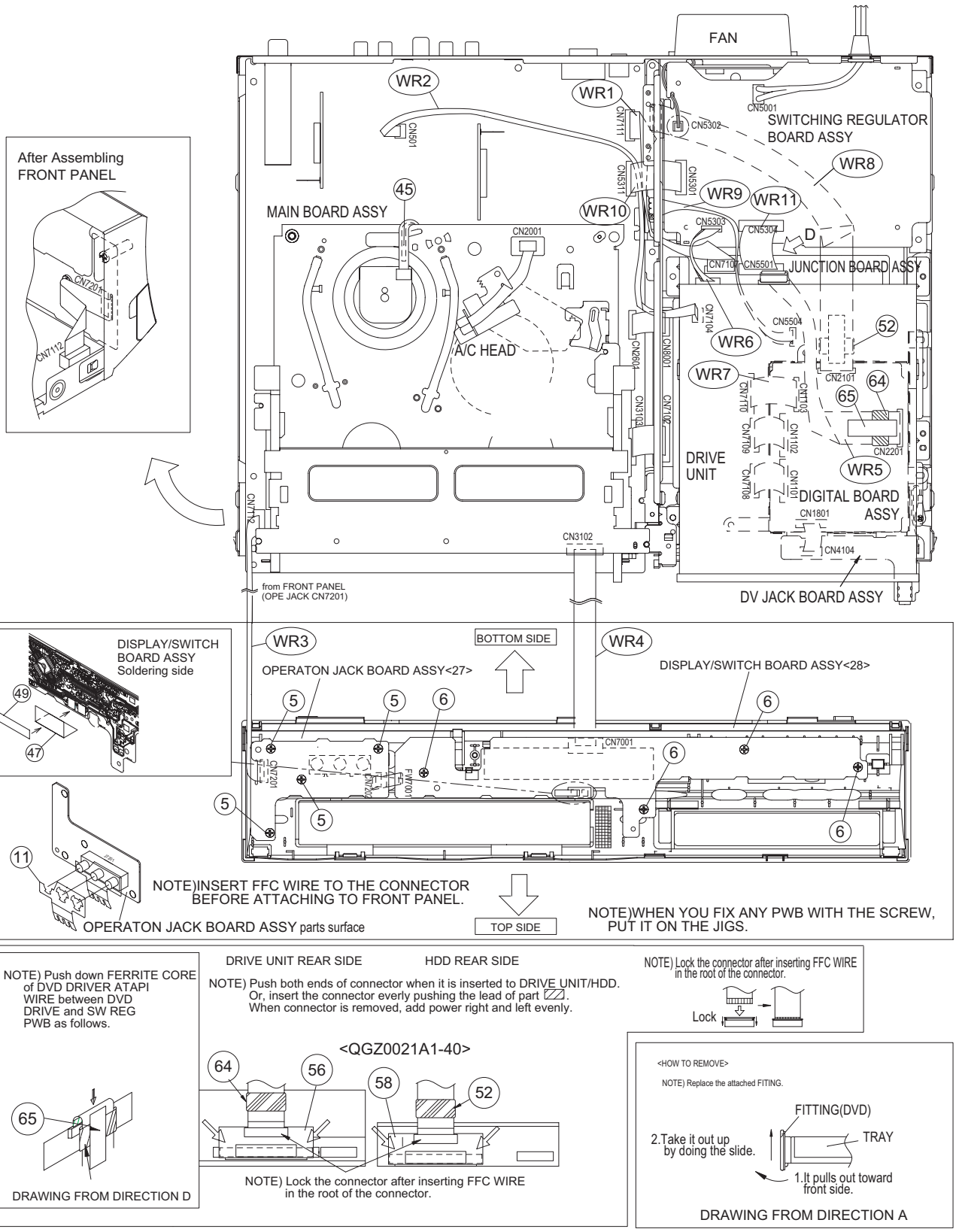
- Contents -

Exploded view of general assembly and parts list ---------- 3-2
VHS mechanism assembly and parts list ---------- 3-6
Electrical parts list ---------- 3-9
Packing materials and accessories parts list ---------- 3-25

Exploded view of general assembly and parts list

Block No. M1MM




After Assembling
FRONT PANEL
CN7201
CN7112
FAN
WR2
WR1
CN501
CN7111
CN5001
CN5302
SWITCHING REGULATOR
BOARD ASSY
WR8
CN5317
CN5301
WR9
WR11
45
MAIN BOARD ASSY
WR10
CN2001
CN5303
CN5304
D
CN7100
CN5501
JUNCTION BOARD ASSY
CN7104
CN5504
52
WR6
A/C HEAD
CN2601
CN8001
CN3101
CN7102
WR7
CN2101
64
65
CN7110
CN7103
CN7109
CN1102
CN2201
DRIVE
UNIT
WR5
CN7108
CN1101
DIGITAL BOARD
ASSY
CN1801
CN7114
CN3102
CN4104
from FRONT PANEL
(OPE JACK CN7201)
DV JACK BOARD ASSY
DISPLAY/SWITCH
BOARD ASSY
Soldering side
49
47
WR3
BOTTOM SIDE
WR4
OPERATON JACK BOARD ASSY<27>
DISPLAY/SWITCH BOARD ASSY<28>
5
5
6
6
CN7001
6
CN7201
CN7202
FW7001
5
5
6
11
NOTE)INSERT FFC WIRE TO THE CONNECTOR
BEFORE ATTACHING TO FRONT PANEL.
OPERATON JACK BOARD ASSY parts surface
TOP SIDE
NOTE)WHEN YOU FIX ANY PWB WITH THE SCREW,
PUT IT ON THE JIGS.
NOTE) Push down FERRITE CORE
of DVD DRIVER ATAPI
WIRE between DVD
DRIVE and SW REG
PWB as follows.
65
DRAWING FROM DIRECTION D
DRIVE UNIT REAR SIDE
HDD REAR SIDE
NOTE) Push both ends of connector when it is inserted to DRIVE UNIT/HDD.
Or, insert the connector everly pushing the lead of part ▨.
When connector is removed, add power right and left evenly.
<QGZ0021A1-40>
64
56
58
52
NOTE) Lock the connector after inserting FFC WIRE
in the root of the connector.
NOTE) Lock the connector after inserting FFC WIRE
in the root of the connector.
Lock
<HOW TO REMOVE>
NOTE) Replace the attached FITING.
FITTING(DVD)
2.Take it out up
by doing the slide.
TRAY
1.It pulls out toward
front side.
DRAWING FROM DIRECTION A

General assembly

Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 1	LP10594-002B	FRONT PANEL ASSY		
1A	LP21410-001A	CASSETTE DOOR		
1B	PQ46448	TORSION SPRING		
1C	QZW0063-001	MAGNET LATCH	(x2)	
1D	QZW0055-005	DAMPER		
1E	LP31491-001A	ASSY SCREW		
2	LP10596-003A	DOOR ASSY		E
2	LP10596-005A	DOOR ASSY		EF
2	LP10596-004A	DOOR ASSY		EK
3	LP31348-001A	FOOT	(x2)	
4	QPH00704705	POLY SHEET	DOOR	
5	QYTDSF2608ZA	TAP SCREW	OPERATON JACK (x4)	
6	QYTDSF2608ZA	TAP SCREW	DISPLAY/SWITCH(x4)	
⚠ 7	LP10460-020A	TOP COVER	(SERVICE)	
8	QYSBSG3006NA	TAP SCREW	TOP SIDE(x4)	
9	QYSBSG3006NA	TAP SCREW	TOP REAR(x4)	
10	LP21348-001B	FITTING(DVD)		
11	LP31337-002A	EARTH PLATE	FOR J7201	
⚠ 12	LP10525-002B	BOTTOM CHASSIS		
13	LP21406-001B	BRACKET(CENTER)		
14	LP31391-001A	SPECIAL SCREW	BKT(CTR)(x2)	
15	LP31391-001A	SPECIAL SCREW	MAIN PWB(x3)	
16	LP31391-002A	SPECIAL SCREW	MECHA(x3)	
17	QYSPSPD3008ZA	SCREW	DRUM(x3)	
18	LP31391-001A	SPECIAL SCREW	HOUSING	
19	LP21408-001B	SHIELD FRAME(DIGI.)		
20	QYTDST3006ZA	TAP SCREW	JPWB&SFRM(x5)	
21	LP41270-001A	COOLING SHEET		
22	QYSBSGG3006ZA	TAP SCREW	DIGI PWB(x4)	
23	LP31391-001A	SPECIAL SCREW	I-LNK PWB	
24	LP21299-001D	LOADER BKT		
25	QYTDST3006ZA	TAP SCREW	DVD DRIVE(x4)	
26	LP31391-001A	SPECIAL SCREW	LOAD BKT(x4)	
28	LP21407-001C	BRACKET(HDDREG)		
29	LPH40278-008A	HDD	(SERVICE)	
30	LP41257-001A	DAMPER	HDD(x4)	
31	LP41220-001A	SPECIAL SCREW	HDD(x4)	
32	LP31391-001A	SPECIAL SCREW	REG PWB(x4)	
33	QYTDST3006ZA	TAP SCREW	BKT(H/R)(x4)	
⚠ 34	LP21295-013A	REAR COVER		
⚠ 35	LP21296-001B	COVER(FAN)		
36	QAR0349-001	COOLING FAN		
37	QYTDSF3010MA	TAP SCREW	FAN(x2)	
38	QYSBSG3006MA	TAP SCREW	COVER(FAN)(x3)	
39	QYSBSG3006NA	TAP SCREW	R.COVER(x2)	
40	QYTDSF3008MA	TAP SCREW	JACK(x7)	
41	QYSBST3004MA	TAP SCREW	TUNER	
42	LP31348-001A	FOOT	(x2)	
⚠ 43	QMPK340-170-JC	POWER CORD(JP)	1.7m BLACK	E,EF
⚠ 43	QMPN330-170-K	POWER CORD(JP)	1.7m BLACK	EK
44	QQR0918-001	CORE FILTER	AC CORD	
45	LP30002-0H8A	SPACER	DRUM FFC	
46	LP41171-001A	SHIELD TIGHT	FOR D.SLD(x2)	
47	LP41206-001A	SHEET		
48	LP41171-001A	SHIELD TIGHT	FOR DRIVE	
49	LP30002-0A9A	SPACER	FRNT SHEET	
50	LP31345-001A	EARTH PLATE		
51	LP31345-001A	EARTH PLATE		
52	QQR1634-001	FERRITE CORE	HDD ATAPII(x2)	
⚠ 53	LP31556-001B	SHEET(HDD)		
54	LP31560-001A	S.PLATE(I LINK)	DV JACK	
⚠ 55	QAL0704-002	DRIVE UNIT		
56	QGZ0025A1-40	CONNECTOR	ATAPI CN	
58	QGZ0025A1-40	CONNECTOR	(1-40)	
60	PDV2541A	DRUM FINAL ASSY		EF
60	PDV2625A	DRUM FINAL ASSY		E,EK
61	LP21409-001C	S.COVER(DIGI.)		
62	LP41279-001A	SPRING	HDDREG BKT(x2)	
63	LP31391-001A	SPECIAL SCREW	S.PLATE(DV)	
64	QQR1634-001	FERRITE CORE	DRIV ATAPI(x2)	
65	LP30002-0A9A	SPACER	FERRITE(x2)	
66	LP41283-001A	HEAT SINK		
67	QYTDST3006ZA	TAP SCREW	HEAT SINK(x2)	
68	LP41270-001A	COOLING SHEET		
69	LP30002-0A9A	SPACER	DD CONV	
70	LP30002-0A9A	SPACER	BKT(HDD(x3)	
71	LP30002-0A9A	SPACER	LOADER BKT	
WR 1	QUQ112-1318CG-E	FFC WIRE	JUNCTION CN7107-MAIN CN7111	
WR 2	QUQ212-0434CG-E	FFC WIRE	JUNCTION CN7104-MAIN CN501	

⚠ Symbol No.	Part No.	Part Name	Description	Local
WR 3	QUQ112-0910CG-E	FFC WIRE	OPERATON JACK CN7201-MAIN CN7112	
WR 4	QUQ112-1510CG-E	FFC WIRE	DISPLAY/SWITCH CN7001-MAIN CN3102	
WR 5	QUQL05-4024AH-E	FFC WIRE	DRIVE UNIT-DIGITAL CN2201	
WR 6	QJJ032-040804-E	SIN CR C-C WIRE	DRIVE UNIT-JUNCTION CN5303	
WR 7	QUQ210-1910CJ-E	FFC WIRE	DIGITAL CN1103-JUNCTION CN7110	
WR 8	QUQL05-4032AH-E	FFC WIRE	HDD-DIGITAL CN2101	
WR 9	QJJ032-042204-E	SIN CR C-C WIRE	HDD-JUNCTION CN5504	
WR10	QUQ212-1512CG-E	FFC WIRE	SWITCHING REGULATOR CN5301-MAIN CN5311	
WR11	QUQ212-1912CG-E	FFC WIRE	SWITCHING REGULATOR CN5304-JUNCTION CN5501	

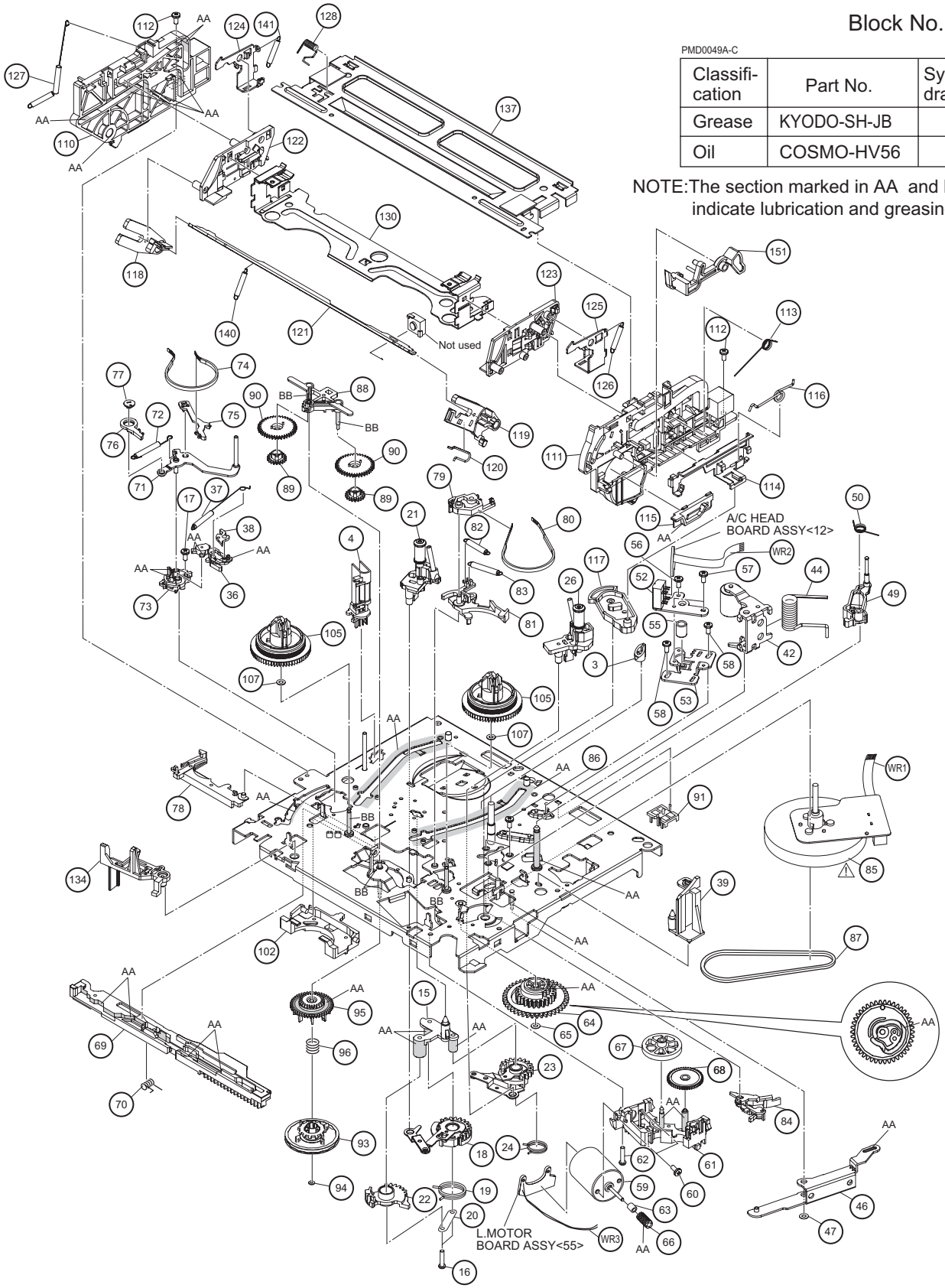
VHS mechanism assembly and parts list

Block No. M2MM

PMD0049A-C

Classifi-cation	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

NOTE:The section marked in AA and BB indicate lubrication and greasing areas.



VHS mechanism

Block No. [M][2][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
3	LP40097-002E	GUIDE POLE CAP		
4	NAH0004-001	FULL ERASE HEAD		
15	LP30958-001B	LOADING GEAR BASE		
16	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm(x2)	
17	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm	
18	LP40798-002A	LOADING GEAR(SUPPLY) ASSY		
19	LP40837-001A	TORSION SPRING(SUPPLY)		
20	LP40903-004A	FIXING PLATE		
21	LP40806-001D	POLE BASE ASSY(SUPPLY)		
22	LP30959-001B	LOADING GEAR		
23	LP40802-002A	LOADING GEAR(TAKE UP) ASSY		
24	LP40838-001A	TORSION SPRING(TAKE UP)		
26	LP40808-001E	POLE BASE ASSY(TAKE UP)		
36	LP21055-001G	TAKE UP LEVER		
37	LP40943-001A	TENSION SPRING		
38	LP40859-001D	T-UP HEAD		
39	LP30961-001C	LID GUIDE		
42	LP40810-003A	PINCH ROLLER ARM ASSY		
44	LP40840-001E	TORSION SPRING		
46	LP30963-002A	PRESS LEVER		
47	PQM30017-24	SLIT WASHER		
49	LP40813-001D	GUIDE ARM ASSY		
50	LP40841-001A	TORSION SPRING		
52	NAH0005-001	AC HEAD		
53	LP30965-003A	HEAD BASE		
55	LP40842-001D	COMPRESSION SPRING		
56	QYTDST2006MA	TAP SCREW	M2 x 6mm	
57	LP41036-002A	A/C ADJ.SCREW	(x2)	
58	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
59	QAR0289-001	LOADING MOTOR		
60	QYTPSP3003ZA	SCREW	M3 x 3mm(x2)	
61	LP21056-002J	MOTOR BRACKET		
62	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm	
63	LP40814-001B	WORM BEARING		
64	LP21044-001E	CONTROL CAM		
65	PQM30017-24	SLIT WASHER		
66	LP40815-001A	WORM GEAR		
67	LP40816-001B	HELICAL GEAR		
68	LP40817-001A	CONNECT GEAR		
69	LP10400-001N	CONTROL PLATE		
70	LP40843-001A	TORSION SPRING		
71	LP40818-002A	TENSION ARM ASSY		
72	LP40844-001F	TENSION SPRING		
73	LP21045-001E	TENSION ARM BASE		
74	LP40821-001A	TENSION BAND ASSY		
75	LP30967-001B	BAND HOLDER-1		
76	LP30968-001C	BAND HOLDER-2		
77	LP40822-002B	ADJUST PIN		
78	LP31000-005E	TENSION ARM LEVER		
79	LP21046-001C	MAIN BRAKE(TAKE UP)		
80	LP40824-001A	BAND BRAKE ASSY		
81	LP30969-002B	BRAKE LEVER		
82	LP30003-033C	TENSION SPRING		
83	LP30003-035C	TENSION SPRING		
84	LP40825-001B	CAPSTAN BRAKE ASSY		
⚠ 85	QAR0267-003	CAPSTAN MOTOR		
86	QYTPSG2606ZA	TAP SCREW	M2.6 x 6mm(x3)	
87	LP30005-010A	BELT	CAPSTAN MOTOR	
88	LP30970-001B	IDLER ARM		
89	LP40828-004A	IDLER GEAR 1	(x2)	
90	LP40829-003A	IDLER GEAR 2	(x2)	
91	LP31014-002A	WIRE HOLDER		
93	LP40934-001B	CLUTCH UNIT		
94	PQM30017-47	SLIT WASHER		
95	LP30973-001A	DIRECT GEAR		
96	LP40939-001A	COMPRESSION SPRING		
102	LP30974-001C	CHANGE LEVER		
105	LP21049-001A	REEL DISK	(x2)	
107	LP30017-004A	SPACER	REEL DISK(x2)	
110	LP10401-001L	SIDE FRAME(L)		
111	LP10402-001M	SIDE FRAME(R)		
112	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
113	LP40917-001D	TORSION SPRING		
114	LP30976-002B	SIDE PLATE		
115	LP30977-002E	LIMIT PLATE		
116	LP40846-001C	LIMIT SPRING		
117	LP31100-002A	DRIVE LEVER		
118	LP30978-001B	DRIVE ARM(L)		
119	LP30979-001S	DRIVE ARM(R)		

⚠ Symbol No.	Part No.	Part Name	Description	Local
120	LP40847-001B	TORSION SPRING		
121	LP30980-002A	CONNECT PLATE		
122	LP10403-001C	SIDE HOLDER(L)		
123	LP10404-001F	SIDE HOLDER(R)		
124	LP30983-002A	LOCK LEVER(L)		
125	LP30984-002A	LOCK LEVER(R)		
126	LP40924-001D	TENSION SPRING		
127	LP40972-001A	EARTH SPRING(1)		
128	LP40857-001B	EARTH SPRING(2)		
130	LP30981-003B	CASSETTE HOLDER ASSY		
134	LP21051-002C	REC SAFETY LEVER		
137	LP21052-002A	TOP FRAME		
140	LP41153-001A	EARTH SPRING(3)		
141	LP40924-001D	TENSION SPRING		
151	LP30985-002M	DOOR OPENER		
WR1	WJT0117-001A-E	E-CARD WIRE	DRUM	
WR2	WJT0067-001B-E	E-CARD WIRE	A/C HEAD CN2001	
WR3	WJW0023-001A-E	E-TWISTED ASSY		

Electrical parts list

Switching regulator board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10298-03B1	SWITCHING REGULATOR BOARD ASSY		
IC5101	STR-G6653-F9	IC		
IC5301	UTCTL431-T	IC		
IC5301 or	TL431/A/-T	IC		
IC5302	MM1665AH-X	IC		
Q5303	UN211E-X	DIGI TRANSISTOR		
Q5303 or	DTC144WKA-X	DIGI TRANSISTOR		
Q5303 or	RT1P44HC-X	DIGI TRANSISTOR		
Q5304	UN2211-X	TRANSISTOR		
Q5304 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5304 or	RT1N141C-X	DIGI TRANSISTOR		
Q5305	2SC3576-JVC-T	TRANSISTOR		
Q5305 or	2SD2144S/VW/-T	TRANSISTOR		
Q5306	2SC6007/F/	POW TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5308	UN2211-X	TRANSISTOR		
Q5308 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5308 or	RT1N141C-X	DIGI TRANSISTOR		
Q5313	2SA1585S/QR/-T	TRANSISTOR		
Q5315	UN2211-X	TRANSISTOR		
Q5315 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5315 or	RT1N141C-X	DIGI TRANSISTOR		
D5001	GBJ4J	BRIDGE DIODE		
D5001 or	D3SBA60	DIODE		
D5001 or	KBJ4J	BRIDGE DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	1F4G-T2	FR DIODE		
D5103 or	10ERB20-T2	FR DIODE		
D5103 or	1F4G-G-T2	FR DIODE		
D5104	1SS133-T2	SI DIODE		
D5104 or	1SS270A-T2	SI DIODE		
D5105	1F4G-T2	FR DIODE		
D5105 or	10ERB20-T2	FR DIODE		
D5105 or	1F4G-G-T2	FR DIODE		
D5106	1F4G-T2	FR DIODE		
D5106 or	10ERB20-T2	FR DIODE		
D5106 or	1F4G-G-T2	FR DIODE		
D5202	RS1G-X	FR DIODE		
D5202 or	1SR156-400-X	SI DIODE		
D5203	UF202G-F26	FR DIODE		
D5203 or	HER202G-B322-3	FR DIODE		
D5204	SX34-X	SB DIODE		
D5205	RK34-LFB2	SB IODE		
D5207	SX34-X	SB DIODE		
D5209	SB240-F26	SB DIODE		
D5209 or	SB240-B322-3	SB DIODE		
D5210	1F4G-T2	FR DIODE		
D5210 or	10ERB20-T2	FR DIODE		
D5210 or	1F4G-G-T2	FR DIODE		
D5211	1F4G-T2	FR DIODE		
D5211 or	10ERB20-T2	FR DIODE		
D5211 or	1F4G-G-T2	FR DIODE		
D5212	SX34-X	SB DIODE		
D5213	UF202G-F26	FR DIODE		
D5213 or	HER202G-B322-3	FR DIODE		
D5303	MTZJ12B-T2	Z DIODE		
D5304	MTZJ5.6C-T2	Z DIODE		
⚠ PC5101	PC123Y82FZ	PHOTO COUPLER		
⚠ C5001	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
⚠ C5002	QFZ9073-223	MM CAPACITOR	0.022uF AC250V M	
C5003	QETM2GM-107	E CAPACITOR	100uF 400V M	
⚠ C5004	QCZ9071-222	C CAPACITOR	2200pF AC400V M	
⚠ C5005	QCZ9071-101	C CAPACITOR	100pF AC400V K	
C5102	QCZ0212-472	C CAPACITOR	4700pF 1kV K	
C5103	QEZ0657-276Z	E CAPACITOR	27uF 35V M	
C5104	QCZ0136-471Z	C CAPACITOR	470pF 1kV K	
C5105	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C5106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5107	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C5202	QETN2AM-475Z	E CAPACITOR	4.7uF 100V M	
C5203	QEZ0701-827	E CAPACITOR	820uF 16V M	
C5204	QEZ0701-827	E CAPACITOR	820uF 16V M	
C5205	QEZ0700-228	E CAPACITOR	2200uF 10V M	
C5206	QTM91AM-338	E CAPACITOR	3300uF 10V M	
C5208	QEZ0700-128	E CAPACITOR	1200uF 10V M	
C5209	QEZ0658-186Z	E CAPACITOR	18uF 50V M	
C5210	QEZ0653-227Z	E CAPACITOR	220uF 6.3V M	
C5301	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C5302	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V J	
C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5305	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5306	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5311	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5312	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5321	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5322	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5323	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5324	QEZ0654-477Z	E CAPACITOR	470uF 10V M	
C5325	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C5330	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C5331	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C5335	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
R5101	QRG02GJ-683	OMF RESISTOR	68kΩ 2W J	
R5102	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5103	QRE141J-684Y	C RESISTOR	680kΩ 1/4W J	
R5104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5105	QRE141J-270Y	C RESISTOR	27Ω 1/4W J	
R5106	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R5107	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R5108	QRT01DJ-R27X	MF RESISTOR	0.27Ω 1W J	
⚠ R5109	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W J	
R5301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R5302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5303	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R5304	NRSA63F-682X	MG RESISTOR	6.8kΩ 1/16W F	
R5305	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R5306	NRSA63F-392X	MG RESISTOR	3.9kΩ 1/16W F	
R5308	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5313	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R5314	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
R5315	QRE121J-121Y	C RESISTOR	120Ω 1/2W J	
R5316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5317	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5327	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5328	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
R5329	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
L5201	QQR1633-001	CORE FILTER		
L5202	QQR1633-001	CORE FILTER		
L5204	QQR1633-001	CORE FILTER		
L5205	QQR1633-001	CORE FILTER		
L5207	QQR1633-001	CORE FILTER		
⚠ T5001	QQS0336-001	SW TRANSF		
B5303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
CN5301	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	
CN5302	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN5303	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN5304	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
CN7110	QGF1040C1-19	CONNECTOR	FFC/FPC (1-19)	E,EK
⚠ CP5301	QMFZ053-1R5Z-J1	FUSE	1.5A	
⚠ F5001	QMF51W2-2R0-J8	FUSE	2A AC250V	
FC5001	QNG0020-001Z	FUSE CLIP		
FC5002	QNG0020-001Z	FUSE CLIP		
⚠ LF5002	QQR1031-001	LINE FILTER		
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
HS1	QZW0162-001	HEAT SINK	FOR IC5101	
OT1	QYTDST3008ZA	TAP SCREW	M3 x 8mm FOR IC5101	

Main board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10293-13C	MAIN BOARD ASSY		E
PW1	LPA10293-15C	MAIN BOARD ASSY		EF
PW1	LPA10293-14C	MAIN BOARD ASSY		EK
IC1	JCP8060-MSA	IC		
IC201	LC74788N-9751-E	IC		
IC501	BH7623KS2	IC		
⚠ IC2201	AN3651FBP	IC		
IC2601	RC4558D-X	IC		
IC2601 or	BA15218F-XE	IC		
IC2602	CD4052BM-X	IC		
IC2603	RC4558D-X	IC		
IC2603 or	BA15218F-XE	IC		
IC2604	CD4052BM-X	IC		
IC2605	RC4558D-X	IC		
IC2606	LA7151-E	IC		
IC2607	LA7151-E	IC		
IC3001	HD6432194SAE18F	IC(MCU)	MASK	EF
IC3001	HD6432194SAE17F	IC(MCU)	MASK	E,EK
IC3002	S-80827CNNB-G-W	IC		
IC3002 or	IC-PST3427U-X	IC		
IC3003	LPN1009-001D-31	IC(EEPROM)	*(REFER TO BELOW)	E
IC3003	LPN1009-003C-33	IC(EEPROM)	*(REFER TO BELOW)	EF
IC3003	LPN1009-002D-32	IC(EEPROM)	*(REFER TO BELOW)	EK
IC3601	BU2090FS-X	IC		
IC4201	LC74793-E	IC		
IC4202	MM1504XN-X	IC		
IC4301	LA7357M-E-W	IC		EF
IC4304	74HC4538D-X	IC		EF
IC7101	CD74HC4053PW-X	IC		
IC7501	SN74LV08APW-X	IC		
Q7	2SC2412K/QRS/-X	TRANSISTOR		
Q7 or	2SD601A/QRS/-X	TRANSISTOR		
Q7 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8	2SC2412K/QRS/-X	TRANSISTOR		
Q8 or	2SD601A/QRS/-X	TRANSISTOR		
Q8 or	2SC3928A/QRS/-X	TRANSISTOR		
Q9	2SC2412K/QRS/-X	TRANSISTOR		
Q9 or	2SD601A/QRS/-X	TRANSISTOR		
Q9 or	2SC3928A/QRS/-X	TRANSISTOR		
Q10	2SC2412K/QRS/-X	TRANSISTOR		
Q10 or	2SD601A/QRS/-X	TRANSISTOR		
Q10 or	2SC3928A/QRS/-X	TRANSISTOR		
Q16	2SA1037AK/QR/-X	TRANSISTOR		
Q16 or	2SB709A/QR/-X	TRANSISTOR		
Q16 or	2SA1530A/QR/-X	TRANSISTOR		
Q202	2SC2412K/QRS/-X	TRANSISTOR		
Q202 or	2SD601A/QRS/-X	TRANSISTOR		
Q202 or	2SC3928A/QRS/-X	TRANSISTOR		
Q203	2SA1037AK/QR/-X	TRANSISTOR		
Q203 or	2SB709A/QR/-X	TRANSISTOR		
Q203 or	2SA1530A/QR/-X	TRANSISTOR		
Q501	2SA1037AK/QR/-X	TRANSISTOR		
Q502	2SC2412K/QRS/-X	TRANSISTOR		
Q503	2SA1037AK/QR/-X	TRANSISTOR		
Q504	DTC144WKA-X	DIGI TRANSISTOR		
Q504 or	UN221E-X	TRANSTSTOR		
Q504 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2001	2SC2412K/QRS/-X	TRANSISTOR		
Q2001 or	2SD601A/QRS/-X	TRANSISTOR		
Q2001 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2002	2SC2412K/QRS/-X	TRANSISTOR		
Q2002 or	2SD601A/QRS/-X	TRANSISTOR		
Q2002 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2003	DTA144WKA-X	TRANSISTOR		
Q2003 or	UN211E-X	DIGI TRANSISTOR		
Q2003 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2051	2SC2412K/QRS/-X	TRANSISTOR		
Q2051 or	2SD601A/QRS/-X	TRANSISTOR		
Q2051 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2052	2SA1037AK/QR/-X	TRANSISTOR		
Q2052 or	2SB709A/QR/-X	TRANSISTOR		
Q2052 or	2SA1530A/QR/-X	TRANSISTOR		
Q2053	DTC144WKA-X	DIGI TRANSISTOR		
Q2053 or	UN221E-X	TRANSTSTOR		
Q2053 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2054	2SA1037AK/QR/-X	TRANSISTOR		
Q2054 or	2SB709A/QR/-X	TRANSISTOR		
Q2054 or	2SA1530A/QR/-X	TRANSISTOR		
Q2055	DTC144WKA-X	DIGI TRANSISTOR		
Q2055 or	UN221E-X	TRANSTSTOR		
Q2055 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2201	DTA144WKA-X	TRANSISTOR		
Q2201 or	UN211E-X	DIGI TRANSISTOR		
Q2201 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2202	DTC144WKA-X	DIGI TRANSISTOR		
Q2202 or	UN221E-X	TRANSTSTOR		
Q2202 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2203	2SC2412K/QRS/-X	TRANSISTOR		
Q2203 or	2SD601A/QRS/-X	TRANSISTOR		
Q2203 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2204	2SC2412K/QRS/-X	TRANSISTOR		
Q2204 or	2SD601A/QRS/-X	TRANSISTOR		
Q2204 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2255	DTC114EKA-X	DIGI TRANSISTOR		
Q2255 or	UN2211-X	TRANSISTOR		
Q2255 or	RT1N141C-X	DIGI TRANSISTOR		
Q2601	2SC2412K/QRS/-X	TRANSISTOR		
Q2601 or	2SD601A/QRS/-X	TRANSISTOR		
Q2601 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2602	2SC2412K/QRS/-X	TRANSISTOR		
Q2602 or	2SD601A/QRS/-X	TRANSISTOR		
Q2602 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2603	DTA144WKA-X	TRANSISTOR		
Q2603 or	UN211E-X	DIGI TRANSISTOR		
Q2603 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2604	2SC2412K/QRS/-X	TRANSISTOR		
Q2604 or	2SD601A/QRS/-X	TRANSISTOR		
Q2604 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2605	2SC2412K/QRS/-X	TRANSISTOR		
Q2605 or	2SD601A/QRS/-X	TRANSISTOR		
Q2605 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2606	DTA144WKA-X	TRANSISTOR		
Q2606 or	UN211E-X	DIGI TRANSISTOR		
Q2606 or	RT1P44HC-X	DIGI TRANSISTOR		
Q3002	PTZ-NV16A	IC(PHOTO SENSOR		
Q3003	PTZ-NV16A	IC(PHOTO SENSOR		
Q3004	2SD601A/QRS/-X	TRANSISTOR		
Q3004 or	2SC2412K/QRS/-X	TRANSISTOR		
Q3004 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3005	2SD601A/QRS/-X	TRANSISTOR		
Q3005 or	2SC2412K/QRS/-X	TRANSISTOR		
Q3005 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3007	UN221E-X	TRANSTSTOR		
Q3007 or	DTC144WKA-X	DIGI TRANSISTOR		
Q3007 or	RT1N44HC-X	DIGI TRANSISTOR		
Q3011	UN221L-X	DIGI TRANSISTOR		
Q3011 or	DTC143EKA-X	DIGI TRANSISTOR		
Q3011 or	RT1N431C-X	DIGI TRANSISTOR		
Q3901	UN221E-X	TRANSTSTOR		
Q3901 or	DTC144WKA-X	DIGI TRANSISTOR		
Q3901 or	RT1N44HC-X	DIGI TRANSISTOR		
Q4001	UN2211-X	TRANSISTOR		
Q4001 or	DTC114EKA-X	DIGI TRANSISTOR		
Q4001 or	RT1N141C-X	DIGI TRANSISTOR		
Q4201	2SC2412K/QRS/-X	TRANSISTOR		
Q4201 or	2SD601A/QRS/-X	TRANSISTOR		
Q4201 or	2SC3928A/QRS/-X	TRANSISTOR		
Q4302	2SA1037AK/QR/-X	TRANSISTOR		EF
Q4303	2SA1037AK/QR/-X	TRANSISTOR		EF
Q6001	2SD2144S/UV/-T	TRANSISTOR		
Q6030	2SA1037AK/QR/-X	TRANSISTOR		
Q6030 or	2SA1530A/QR/-X	TRANSISTOR		
Q7301	2SC2412K/QRS/-X	TRANSISTOR		
Q7302	2SA720/RS/-T	TRANSISTOR		
D202	1SS133-T2	SI DIODE		
D203	1SS133-T2	SI DIODE		
D2001	1SS133-T2	SI DIODE		
D2001 or	1SS270A-T2	SI DIODE		
D2251	1SS133-T2	SI DIODE		
D2251 or	1SS270A-T2	SI DIODE		

After exchanging EEPROMs, a main part does not correspond to some remote control commands at Jig RCU mode. Please cancel the Jig RCU mode of a main part after exchanging EEPROMs. Please refer to the "Canceling JIG mode" about the release method.

⚠ Symbol No.	Part No.	Part Name	Description	Local
D2601	1SS133-T2	SI DIODE		
D2601 or	1SS270A-T2	SI DIODE		
D2602	1SS133-T2	SI DIODE		
D2602 or	1SS270A-T2	SI DIODE		
D3001	LNB2301L01VI	LED		
D3002	1SS133-T2	SI DIODE		
D3002 or	1SS270A-T2	SI DIODE		
D3003	MTZJ39C-T2	Z DIODE		
D3004	10EDB20-T2	SI DIODE		
D3004 or	1A3G-T2	SI DIODE		
D3005	10EDB20-T2	SI DIODE		
D3005 or	1A3G-T2	SI DIODE		
D3008	1SS133-T2	SI DIODE		
D3008 or	1SS270A-T2	SI DIODE		
D3011	1SS133-T2	SI DIODE		
D4001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D4002	1SS355-X	SI DIODE		
D4002 or	MA111-X	SI DIODE		
D4301	1SS133-T2	SI DIODE		EF
D6002	HZ30-2L-T2	Z DIODE		
D7301	DA204U-X	SI DIODE		
D7302	DA204U-X	SI DIODE		
PC3001	RPI-304J	IC(PHOTO SENSOR		
PC3002	RPI-304J	IC(PHOTO SENSOR		
C1	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C2	NDC31HJ-390X	C CAPACITOR	39pF 50V J	EF
C2	NDC31HJ-470X	C CAPACITOR	47pF 50V J	E,EK
C3	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	EF
C4	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C5	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C9	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C10	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C11	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C12	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C13	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C14	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C19	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C20	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C22	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C24	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C25	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C26	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C27	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C29	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C30	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	
C31	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C32	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C33	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C34	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C35	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C36	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C37	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	
C38	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C39	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C40	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C41	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C43	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C44	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C45	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C46	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C47	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C48	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C49	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C50	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C56	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C57	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C58	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C59	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C60	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C61	QEKC0JM-476Z	E CAPACITOR	47uF 6.3V M	
C62	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C63	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C64	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C71	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C75	NDC31HJ-390X	C CAPACITOR	39pF 50V J	EF
C85	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C201	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C203	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C204	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C205	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C206	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C207	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C208	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C209	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C213	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C501	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C503	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C505	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C507	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C511	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C513	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C514	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C519	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C521	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C523	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C524	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C525	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C526	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C528	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C530	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C532	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C534	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C535	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C536	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C543	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C544	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C547	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C552	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2001	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2002	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2003	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2005	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2006	NCB31EK-682X	C CAPACITOR	6800pF 25V K	
C2007	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C2008	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2009	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2010	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C2011	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2012	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2013	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2051	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2052	QFV61HJ-823Z	MF CAPACITOR	0.082uF 50V J	
C2053	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2054	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2055	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2201	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2202	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2203	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2205	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2206	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2207	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2208	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2209	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2210	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2211	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2212	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2214	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2215	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2216	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2220	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2221	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2222	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2223	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2224	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2227	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2251	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2252	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2253	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2254	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2255	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2256	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2257	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C2258	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C2259	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C2261	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2262	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2601	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2603	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2604	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2605	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2606	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2607	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2608	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2609	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2610	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2611	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2612	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2613	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2614	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2615	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2616	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2617	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2618	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2651	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2653	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3004	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3010	QEZ0244-229	EDL CAPACITOR	0.022F 5.5V Z	
C3012	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	
C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C3030	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C3031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3034	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3035	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3042	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3071	QEKJ1HM-336Z	E CAPACITOR	33uF 50V M	
C3602	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C4002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4004	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C4005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C4006	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4008	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4010	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C4011	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4014	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C4015	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4018	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4031	QEKJ1CM-336Z	E CAPACITOR	33uF 16V M	
C4201	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4202	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4203	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4205	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C4206	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C4207	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C4208	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4209	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C4210	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4216	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4217	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4218	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4301	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4302	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	EF
C4304	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4305	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4306	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4307	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4308	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4309	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	EF
C4310	NDC31HJ-471X	C CAPACITOR	470pF 50V J	EF
C4318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	EF
C4319	NDC31HJ-471X	C CAPACITOR	470pF 50V J	EF
C6001	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C6002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6014	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6037	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6752	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7301	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7303	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7304	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7305	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7306	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7307	QETJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C7501	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C7502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7503	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7504	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C7505	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C7509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R2	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	EF
R3	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	E,EK
R5	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	EF
R11	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R12	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R21	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R22	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R35	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	EF
R36	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R37	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R38	NRSA63J-685X	MG RESISTOR	6.8MΩ 1/16W J	
R41	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R42	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R43	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R203	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R205	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R206	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R209	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R212	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R510	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R514	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R522	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R524	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R525	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R526	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R528	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R530	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R531	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R532	QRE141J-394Y	C RESISTOR	390kΩ 1/4W J	
R2003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2005	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2007	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2010	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2013	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2014	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R2015	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R2016	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2017	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2018	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2019	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2021	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2023	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2053	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2054	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2055	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J	
R2056	QRE141J-820Y	C RESISTOR	82Ω 1/4W J	
R2057	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2058	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2059	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2060	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2202	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2203	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2204	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2208	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2209	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2210	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2211	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2212	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2213	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2214	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2218	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2219	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2220	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2222	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2223	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R2224	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R2225	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2227	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R2228	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2229	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R2230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2231	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2232	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2233	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2234	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2241	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2242	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2243	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2244	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2251	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2252	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2255	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2601	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2602	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2604	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2605	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2613	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2615	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2618	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2619	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2620	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2621	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R2622	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R2631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2632	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2635	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2636	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2637	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2654	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2655	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2656	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2657	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2661	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2662	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2663	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2666	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	EF
R3013	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3016	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3017	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3019	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3025	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3026	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3027	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3029	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3032	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3036	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3038	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3051	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3052	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3054	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3057	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3061	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3063	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3075	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3076	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3077	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	EF

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3078	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3079	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3080	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3081	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3083	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3085	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3086	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3087	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3089	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3091	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3095	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3096	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3107	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	EF
R3205	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R3206	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3207	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3209	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3210	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3211	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3212	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R3213	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3216	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3219	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3220	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3231	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3235	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3241	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3250	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	E,EK
R3253	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3259	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3260	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3261	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3262	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3263	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3264	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3607	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3608	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3610	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3611	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4003	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4004	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4005	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4009	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4013	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4015	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4127	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4209	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4210	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4211	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	EF
R4305	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	EF
R4306	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	EF
R4307	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	EF
R4308	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	EF
R4309	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	EF
R4310	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	EF
R4311	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	EF
R4313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	EF
R4317	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	EF
R4318	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	EF
R4319	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	EF
R4320	QRE141J-0R0Z	C RESISTOR	0Ω 1/4W J	EF
R6001	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R6002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6032	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	EF
R6032	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	E,EK
R6033	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	EF
R6033	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	E,EK
R6080	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R7301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7302	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7303	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7306	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7308	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7309	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7310	QRE121J-151Y	C RESISTOR	150Ω 1/2W J	
R7501	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R7502	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7503	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7504	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R7505	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R7506	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R7507	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
L2	QQL071J-221Y	COIL	220uH J	EF
L3	QQL29BJ-100Z	P COIL	10uH J	
L5	QQL29BJ-100Z	P COIL	10uH J	
L6	QQL29BJ-100Z	P COIL	10uH J	
L7	QQR0967-001	CHOKE COIL		
L10	QQL29BJ-100Z	P COIL	10uH J	
L14	QQL071J-101Y	COIL	100uH J	EF
L201	QQL29BJ-100Z	P COIL	10uH J	
L202	QQL071J-220Y	COIL	22uH J	
L203	QQL071J-220Y	COIL	22uH J	
L501	QQL29BJ-100Z	P COIL	10uH J	
L502	QQL29BJ-100Z	P COIL	10uH J	
L2251	QQL29BJ-100Z	P COIL	10uH J	
L2252	QQL29BJ-151Z	P COIL	150uH J	
⚠ L3001	QQL231J-R22Y	COIL	0.22uH J	
L4201	QQL29BJ-100Z	P COIL	10uH J	
L4301	QQL29BJ-100Z	P COIL	10uH J	EF
L6002	QQL29BK-1R0Z	P COIL	1uH K	
L6003	QQL29BK-1R0Z	P COIL	1uH K	
L6005	QQL231J-5R6Y	COIL	5.6uH J	
L6701	QQL29BJ-3R3Z	P COIL	3.3uH J	
L7301	QQL29BJ-100Z	P COIL	10uH J	
L7501	QQL29BK-1R0Z	P COIL	1uH K	
T2051	QQR0002-001	BIAS COIL		
B1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
B7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	EF
B202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B505	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
B7111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN1	QGF1201C2-09	CONNECTOR	FFC/FPC (1-9)	
CN501	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN2001	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN2002	QGB2532J1-02	CONNECTOR	B-B (1-2)	
CN2601	QGB1231L1-11	CONNECTOR	B-B (1-11)	
CN3001	QGB2032M4-12	CONNECTOR	B-B (1-12)	
CN3102	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN3103	QGB1231L1-19	CONNECTOR	B-B (1-19)	
CN3901	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN4401	LPA10291-01B	RGB_YC BOARD ASSY		
CN5311	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN6701	LPA10292-04A	DEMOD BOARD ASSY		EF
CN7111	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN7112	QGF1207C1-09	CONNECTOR	FFC/FPC (1-9)	
CN7113	QGB2024K1-13S	CONNECTOR	B-B (1-13)	
CN7114	QGB2024K1-15S	CONNECTOR	B-B (1-15)	
CN7115	QGB2024K1-17S	CONNECTOR	B-B (1-17)	
CN7119	LPA10011-03A	SECAM BOARD ASSY		EF
⚠ CP3002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
⚠ CP4002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
J7009	QNN0096-001	PIN JACK	COAX OUT	
J7301	QNS0259-001	3.5 JACK	G-LINK	
JS3001	NSW0238-001	ROTARY ENCODER		
K2001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7501	NQR0147-004X	FERRITE BEADS		
K7503	NQR0147-004X	FERRITE BEADS		
S3001	QSW0602-004	PUSH SWITCH	REC SAFE	
TU6001	QAU0402-002	TUNER		EF
TU6001	QAU0401-001	TUNER		E,EK
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W33	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W34	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W35	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W36	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W37	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W38	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W45	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W46	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W47	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W48	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W49	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W50	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W51	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W53	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W54	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W55	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W56	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W57	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W58	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
WR2	QRE141J-0R0Z	C RESISTOR	0Ω 1/4W J	
X1	QAX0740-001	CRYSTAL	4.433619MHz	
X3001	QAX0444-001	CRYSTAL	32.768kHz	
X3002	QAX0527-001	CRYSTAL	10.000000MHz	
X4201	QAX0849-001	CRYSTAL	4.433619MHz	
OT1	LP31158-001A	BOSS(MECHA) 1		
OT2	LP31185-001A	BOSS(MECHA) 2 (x2)		
SD1	LP31179-001A	SHILD PLATE(PRE/REC)		

Terminal board

Block No. [0][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10296-01B	TERMINAL BOARD ASSY		
IC901	HA118226F	IC		
IC902	BA7623F-X	IC		
Q901	2SC2412K/QRS/-X	TRANSISTOR		
Q901 or	2SD601A/QRS/-X	TRANSISTOR		
Q901 or	2SC3928A/QRS/-X	TRANSISTOR		
Q902	2SC2412K/QRS/-X	TRANSISTOR		
Q902 or	2SD601A/QRS/-X	TRANSISTOR		
Q902 or	2SC3928A/QRS/-X	TRANSISTOR		
Q903	DTC144WKA-X	DIGI TRANSISTOR		
Q903 or	UN221E-X	TRANSTSTOR		
Q903 or	RT1N44HC-X	DIGI TRANSISTOR		
Q904	DTC144WKA-X	DIGI TRANSISTOR		
Q904 or	UN221E-X	TRANSTSTOR		
Q904 or	RT1N44HC-X	DIGI TRANSISTOR		
Q905	DTC124XKA-X	DIGI TRANSISTOR		
Q905 or	UN221T-X	DIGI TRANSISTOR		
Q905 or	RT1N242C-X	DIGI TRANSISTOR		
Q907	2SA1037AK/QR/-X	TRANSISTOR		
Q907 or	2SB709A/QR/-X	TRANSISTOR		
Q907 or	2SA1530A/QR/-X	TRANSISTOR		
Q908	2SA1037AK/QR/-X	TRANSISTOR		
Q908 or	2SB709A/QR/-X	TRANSISTOR		
Q908 or	2SA1530A/QR/-X	TRANSISTOR		
Q912	2SA1037AK/QR/-X	TRANSISTOR		
Q913	2SA1037AK/QR/-X	TRANSISTOR		
Q932	2SA1037AK/QR/-X	TRANSISTOR		
Q932 or	2SB709A/QR/-X	TRANSISTOR		
Q932 or	2SA1530A/QR/-X	TRANSISTOR		
Q933	2SA1037AK/QR/-X	TRANSISTOR		
Q933 or	2SB709A/QR/-X	TRANSISTOR		
Q933 or	2SA1530A/QR/-X	TRANSISTOR		
Q936	2SA1037AK/QR/-X	TRANSISTOR		
Q936 or	2SB709A/QR/-X	TRANSISTOR		
Q936 or	2SA1530A/QR/-X	TRANSISTOR		
Q941	2SA1037AK/QR/-X	TRANSISTOR		
Q942	DTC114TKA-X	TRANSISTOR		
Q943	DTC144WKA-X	DIGI TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q943	or UN221E-X	TRANSTSTOR		
Q943	or RT1N44HC-X	DIGI TRANSISTOR		
Q944	DTC114EKA-X	DIGI TRANSISTOR		
Q944	or UN2211-X	TRANSISTOR		
Q944	or RT1N141C-X	DIGI TRANSISTOR		
D904	MTZJ9.1B-T2	Z DIODE		
C901	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C902	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C903	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C904	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C905	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C906	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C907	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C908	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C909	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C914	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C915	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C916	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C917	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C918	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C919	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C920	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C921	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C922	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C923	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C924	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C925	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C930	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C932	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C937	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C939	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C940	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C941	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C942	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C944	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C950	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C951	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C952	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C953	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C954	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C955	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C956	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C960	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C961	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C962	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C963	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C964	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C965	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C968	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C971	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C973	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C981	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C982	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C983	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C986	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C988	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C991	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C992	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C994	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C996	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C997	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R902	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R903	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R904	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R905	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R906	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R907	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R908	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R909	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R910	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R911	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R912	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R913	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R914	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R915	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R916	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R917	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R918	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R919	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R920	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R921	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R922	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R923	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R924	NRSA63D-680X	MG RESISTOR	68Ω 1/16W D	
R925	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R926	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R927	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R928	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R929	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R930	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R931	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R932	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R937	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R939	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R940	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R943	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R944	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R945	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R946	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R947	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R965	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R966	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R967	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R968	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R969	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R976	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R977	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R978	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R985	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R986	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R987	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R988	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R989	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R990	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R991	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R992	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R993	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R994	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L903	QQL071J-1R0Y	COIL	1uH J	
L904	QQL071J-4R7Y	COIL	4.7uH J	
L905	QQL071J-4R7Y	COIL	4.7uH J	
L908	QQL231J-R22Y	COIL	0.22uH J	
L909	QQL071J-4R7Y	COIL	4.7uH J	
L910	QQL071J-4R7Y	COIL	4.7uH J	
L917	QQL29BJ-100Z	P COIL	10uH J	
L918	QQL29BJ-100Z	P COIL	10uH J	
L919	QQL29BJ-100Z	P COIL	10uH J	
L931	QQL071J-100Y	COIL	10uH J	
L932	QQL071J-100Y	COIL	10uH J	
L933	QQL071J-100Y	COIL	10uH J	
L934	QQL071J-100Y	COIL	10uH J	
CN913	QGB2024J1-15S	CONNECTOR	B-B (1-15)	
CN914	QGB2024J1-13S	CONNECTOR	B-B (1-13)	
CN915	QGB2024J1-17S	CONNECTOR	B-B (1-17)	
ET1	QNZ0431-001Z	EARTH TERMINAL		
J901	QNZ0627-001	21P CONNECTOR	L-1 IN/OUT	
J902	QNZ0627-001	21P CONNECTOR	L-2 IN/DECODER	
J905	QNN0599-002	PIN JACK	COMPONENT	
J907	QNN0295-002	PIN JACK	AUDIO	
W101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DC/DC Converter board

Block No. [1][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA20041-02B	DC/DC CONVERTER BOARD ASSY		
IC5701	BD9851EFV-X	IC		
IC5710	QS5U27-W	MOS FET		
Q5720	RTQ035P02-W	MOS FET		
D5710	RB520S-30-X	SB DIODE		
D5720	RB520S-30-X	SB DIODE		
D5721	SX34-X	SB DIODE		
D5721 or	RB051L-40-X	SB DIODE		
C5710	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C5711	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5712	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5713	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5714	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5716	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C5720	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C5721	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5722	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5723	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5724	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5726	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C5727	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5730	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5731	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C5732	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
R5710	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5711	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R5712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5713	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5720	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5721	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R5722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5723	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5731	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5732	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L5710	NQL82EN-100X	COIL	10uH N	
L5720	NQR0562-001X	CHOKE COIL		
CN5701	QGG2009M1-13	CONNECTOR	(1-13)	
CN5702	QGG2009M1-03	CONNECTOR	(1-3)	
K5710	NQR0499-002X	FERRITE BEADS		
K5720	NQR0499-002X	FERRITE BEADS		

A/C Head board

Block No. [1][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A1	A/C HEAD BOARD ASSY		

Demodulator board

Block No. [1][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10292-04A	DEMODULATOR BOARD ASSY		EF
PW1	LPA10292-03A	DEMODULATOR BOARD ASSY		E,EK
IC6701	MSP3417GQGB8V3X	IC		
D6701	1SS133-T2	SI DIODE		
D6701 or	1SS270A-T2	SI DIODE		
C6704	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	EF
C6704	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	E,EK
C6707	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6708	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C6709	NDC31HJ-150X	C CAPACITOR	15pF 50V J	EF
C6709	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	E,EK
C6713	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C6714	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6715	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6716	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6717	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6719	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6720	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6724	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	EF
R6707	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R6708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6709	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6711	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6713	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R6714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6715	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R6716	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R6719	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R6720	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6721	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
B6701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN6701	QGG2502K1-10	CONNECTOR	(1-10)	
K6701	NQR0129-003X	FERRITE BEADS		
K6702	NQR0129-003X	FERRITE BEADS		
K6705	NQR0129-003X	FERRITE BEADS		
K6706	NQR0129-003X	FERRITE BEADS		
K6707	NQR0129-003X	FERRITE BEADS		EF
K6708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X6701	QAX0773-001Z	CRYSTAL	18.432000MHz	
OT1	LP40425-001A	BRACKET(PWB)		

Operation/jack board

Block No. [2][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10298-03B5	OPERATON JACK BOARD ASSY		
C7202	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C7204	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C7206	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R7202	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	
R7206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7207	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
L7202	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
L7203	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
CN7201	QGF1208C1-09	CONNECTOR	FFC/FPC (1-9)	
CN7202	QGD2503C1-04	CONNECTOR	(1-4)	
J7201	QNN0591-001	PIN JACK	FRONT AV	
J7204	QND0084-001	S JACK	FRONT S	
S7216	QSW0381-001Z	TACT SWITCH	VHS_EJECT	
S7218	QSW0381-001Z	TACT SWITCH	OPE	

Switch/Display board

Block No. [2][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10298-03B4	DISPLAY/SWITCH BOARD ASSY		
IC7001	PT6315	IC		
IC7002	GP1UM281XKVF	IR DETECT UNIT		
IC7002	or PNA4652M00XB	IR DETECT UNIT 38kHz		
Q7001	UN221L-X	DIGI TRANSISTOR		
Q7001	or DTC143EKA-X	DIGI TRANSISTOR		
Q7001	or RT1N431C-X	DIGI TRANSISTOR		
Q7002	UN221L-X	DIGI TRANSISTOR		
Q7002	or DTC143EKA-X	DIGI TRANSISTOR		
Q7002	or RT1N431C-X	DIGI TRANSISTOR		
Q7003	UN221L-X	DIGI TRANSISTOR		
Q7003	or DTC143EKA-X	DIGI TRANSISTOR		
Q7003	or RT1N431C-X	DIGI TRANSISTOR		
D7001	1SS133-T2	SI DIODE		
D7001	or 1SS270A-T2	SI DIODE		
D7002	1SS133-T2	SI DIODE		
D7002	or 1SS270A-T2	SI DIODE		
D7003	1SS133-T2	SI DIODE		
D7003	or 1SS270A-T2	SI DIODE		
D7004	1SS133-T2	SI DIODE		
D7004	or 1SS270A-T2	SI DIODE		
D7005	1SS133-T2	SI DIODE		
D7005	or 1SS270A-T2	SI DIODE		
D7012	1SS133-T2	SI DIODE		
D7012	or 1SS270A-T2	SI DIODE		
D7013	1SS133-T2	SI DIODE		
D7013	or 1SS270A-T2	SI DIODE		
D7014	1SS133-T2	SI DIODE		
D7014	or 1SS270A-T2	SI DIODE		
D7015	1SS133-T2	SI DIODE		
D7015	or 1SS270A-T2	SI DIODE		
D7016	1SS133-T2	SI DIODE		
D7016	or 1SS270A-T2	SI DIODE		
D7021	MTZJ9.1B-T2	Z DIODE		
D7041	SLR343WBCT3	LED	VHS	
D7042	SLR-343VC-T	LED	VHS REC	
D7043	SLR-343VC-T	LED	HDD REC	
D7044	SLR-343VC-T	LED	DVD REC	
D7045	SDPB50A0/DEGH/	LED	BLUE LIGHT	
D7045	or SLA-580BC3T3F	LED	BLUE LIGHT	
D7046	SLR343WBCT3	LED	HDD	
D7047	SLR343WBCT3	LED	DVD	
D7048	SDPB50A0/DEGH/	LED	BLUE LIGHT	
D7048	or SLA-580BC3T3F	LED	BLUE LIGHT	
C7001	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C7002	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7003	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	
C7006	QEKC0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7007	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7008	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C7010	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
C7011	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
R7001	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7002	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7003	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7005	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7009	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7013	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7014	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7022	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7041	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7042	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R7043	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R7044	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R7045	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7046	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7047	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R7048	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
CN7001	QGF1209F2-15	CONNECTOR	FFC/FPC (1-15)	
DI7001	QLF0143-001	FL TUBE		
FW7001	QUM024-07A4BF-E	PARA RIBON WIRE		
HD1	PQ34949-1-1	FL HOLDER(L)	FOR DI7001	
HD2	PQ34950-1-1	FDP HOLDER(R)	FOR DI7001	
S7002	QSW0381-001Z	TACT SWITCH	CH+	
S7004	QSW0381-001Z	TACT SWITCH	DOWN	
S7012	QSW0381-001Z	TACT SWITCH	VHS/HD/DVD	
S7013	QSW0381-001Z	TACT SWITCH	RIGHT	
S7014	QSW0381-001Z	TACT SWITCH	PAUSE	
S7015	QSW0381-001Z	TACT SWITCH	STOP	
S7022	QSW0381-001Z	TACT SWITCH	CH-	
S7023	QSW0381-001Z	TACT SWITCH	UP	
S7024	QSW0381-001Z	TACT SWITCH	GUIDE	
S7032	QSW0381-001Z	TACT SWITCH	OPEN/CLOSE	
S7033	QSW0381-001Z	TACT SWITCH	LEFT	
S7034	QSW0381-001Z	TACT SWITCH	REC	
S7035	QSW0381-001Z	TACT SWITCH	PLAY	
S7036	QSW0381-001Z	TACT SWITCH	NAVI	
S7037	QSW0381-001Z	TACT SWITCH	DUB	
S7038	QSW0381-001Z	TACT SWITCH	SET	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W43	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W45	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DV Jack board

Block No. [3][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10298-03A3	DV JACK BOARD ASSY		
CN4104	QGB1231M1-09	CONNECTOR	B-B (1-9)	
GN4101	QNZ0136-001Z	EARTH PLATE		
J4112	QNZ0675-001	D CONNECTOR	F-DV	

Digital board

Block No. [5][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10300-05C	DIGITAL BOARD ASSY		
IC1001	JCP8059-2	IC		
IC1002	HY57V161610ETP7	IC		
IC1002	or K4S161622H-UC60	IC		
IC1201	LPN0986-001A	IC(FLASH)	(SERVICE)	
IC1202	SN74LVC373APW-X	IC(DIGITAL)		
IC1203	SN74LVC373APW-X	IC(DIGITAL)		
IC1401	DMN8652-B0L	IC(DIGITAL)		
IC1404	SN74HCT08APW-X	IC		
IC1601	HY5DU561622DT-J	IC		
IC1602	HY5DU561622DT-J	IC		
IC1603	HY5DU561622DT-J	IC		
IC1604	HY5DU561622DT-J	IC		
IC1701	BD3533F-X	IC		
IC1801	TSB41AB1PAP	IC		
IC1901	TVP5150AM1PBS-W	IC		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q1001	2SA1530A/QR/-X	TRANSISTOR		
Q1001	or 2SA1037AK/QR/-X	TRANSISTOR		
Q1001	or 2SB709A/QR/-X	TRANSISTOR		
Q1002	2SA1530A/QR/-X	TRANSISTOR		
Q1002	or 2SA1037AK/QR/-X	TRANSISTOR		
Q1002	or 2SB709A/QR/-X	TRANSISTOR		
Q1003	2SA1530A/QR/-X	TRANSISTOR		
Q1003	or 2SA1037AK/QR/-X	TRANSISTOR		
Q1003	or 2SB709A/QR/-X	TRANSISTOR		
Q1006	2SA1530A/QR/-X	TRANSISTOR		
Q1006	or 2SA1037AK/QR/-X	TRANSISTOR		
Q1006	or 2SB709A/QR/-X	TRANSISTOR		
Q1008	BC847PN-X	PAIR TRANSISTOR		
Q1008	or UMZ1N-W	PAIR TRANSISTOR		
Q1008	or BC846PN-X	PAIR TRANSISTOR		
Q1009	2SC3928A/QRS/-X	TRANSISTOR		
Q1009	or 2SC2412K/QRS/-X	TRANSISTOR		
Q1009	or 2SD601A/QRS/-X	TRANSISTOR		
Q1010	2SC3928A/QRS/-X	TRANSISTOR		
Q1010	or 2SC2412K/QRS/-X	TRANSISTOR		
Q1010	or 2SD601A/QRS/-X	TRANSISTOR		
Q1011	2SC3928A/QRS/-X	TRANSISTOR		
Q1011	or 2SC2412K/QRS/-X	TRANSISTOR		
Q1011	or 2SD601A/QRS/-X	TRANSISTOR		
Q1301	2SA1037AK/QR/-X	TRANSISTOR		
Q1301	or 2SA1530A/QR/-X	TRANSISTOR		
Q1301	or 2SB709A/QR/-X	TRANSISTOR		
Q1304	2SC2412K/QRS/-X	TRANSISTOR		
Q1304	or 2SC3928A/QRS/-X	TRANSISTOR		
Q1304	or 2SD601A/QRS/-X	TRANSISTOR		
D1001	1SS355-X	SI DIODE		
D1001	or MA111-X	SI DIODE		
D1401	1SS355-X	SI DIODE		
D1401	or MA111-X	SI DIODE		
D1402	1SS355-X	SI DIODE		
D1402	or MA111-X	SI DIODE		
D1403	1SS355-X	SI DIODE		
D1403	or MA111-X	SI DIODE		
D2101	SML-010LT-X	LED		
D2101	or SML-010MT-X	LED		
D2201	SML-010LT-X	LED		
D2201	or SML-010MT-X	LED		
C1001	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1048	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1049	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1050	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1051	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1065	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1088	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1095	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1301	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1307	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1310	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C1315	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1316	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1404	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1413	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1415	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1420	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1427	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1435	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1436	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1438	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1439	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1444	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1445	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1446	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1454	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1455	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1457	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1459	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1460	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1461	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1462	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1464	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1466	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1467	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1470	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1471	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1472	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1473	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1474	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1601	NEX60GM-337X	E CAPACITOR	330uF 4V M	
C1606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1620	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1627	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1628	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1634	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1635	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1636	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1641	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1643	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1645	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1647	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1648	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1649	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NEHM0JM-476X	E CAPACITOR	47uF 6.3V M	
C1704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1706	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1707	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C1708	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1709	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1710	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1806	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1809	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1810	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1813	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1815	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1816	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1901	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1903	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1905	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1906	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C1907	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C1908	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C1909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1910	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1911	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
R1001	NRSA63D-301X	MG RESISTOR	300Ω 1/16W D	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1016	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1021	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1022	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1024	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1027	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1028	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1040	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1043	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1046	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1050	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1051	NRSA63D-181X	MG RESISTOR	180Ω 1/16W D	
R1054	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1057	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1059	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1060	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1061	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1064	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA63J-620X	MG RESISTOR	62Ω 1/16W J	
R1068	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1069	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1070	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1071	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1303	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1308	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F	
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1404	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1407	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1410	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1412	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1413	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1417	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1437	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1438	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1443	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1448	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1453	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1455	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1456	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1457	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1458	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1462	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1463	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1464	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1470	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1472	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1474	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1476	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1481	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1483	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1601	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1602	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1613	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1614	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1615	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1616	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1619	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1621	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1622	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1623	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1627	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1628	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1629	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1630	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1631	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1632	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1653	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1654	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1655	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1656	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1657	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1658	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1659	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1660	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1801	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1802	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1901	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1902	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1903	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1904	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1907	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1912	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1913	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R2101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2104	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2105	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2107	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2108	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2110	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2111	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2112	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2114	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2115	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2116	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2204	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2205	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2206	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2207	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2208	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2209	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2210	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2211	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2212	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2214	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2215	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2216	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
RA1401	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1402	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1403	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1404	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1405	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1406	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1609	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1610	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1611	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1612	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1613	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1614	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1615	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1616	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1617	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1618	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1619	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1620	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1621	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1622	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1623	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1624	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1625	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1626	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1627	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1628	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1629	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1630	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1631	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1632	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1633	NRZ0087-220W	NET RESISTOR	22Ω 1/15W J	
RA1634	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1801	NRZ0087-103W	NET RESISTOR	10kΩ 1/16W J	
RA1802	NRZ0087-103W	NET RESISTOR	10kΩ 1/16W J	
RA2101	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2102	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2103	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2104	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2208	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2209	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2210	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2211	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
T1801	NQR0568-005X	CHOKE COIL		
B1202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1405	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1901	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN1101	QGB1231L2-15W	CONNECTOR	B-B (1-15)	
CN1102	QGB1231L2-15W	CONNECTOR	B-B (1-15)	
CN1103	QGF1016C6-19W	CONNECTOR	FFC/FPC (1-19)	
CN1403	QGF1016C6-04W	CONNECTOR	FFC/FPC (1-4)	
CN1801	QGB1231L2-09W	CONNECTOR	B-B (1-9)	
CN2101	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
CN2201	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
K1001	NQR0022-002X	FERRITE BEADS		
K1002	NQR0022-002X	FERRITE BEADS		
K1003	NQR0022-002X	FERRITE BEADS		
K1004	NQR0022-002X	FERRITE BEADS		
K1005	NQR0022-002X	FERRITE BEADS		
K1006	NQR0022-002X	FERRITE BEADS		
K1007	NQR0022-002X	FERRITE BEADS		
K1008	NQR0022-002X	FERRITE BEADS		
K1009	NQR0022-002X	FERRITE BEADS		
K1010	NQR0022-002X	FERRITE BEADS		
K1011	NQR0022-002X	FERRITE BEADS		
K1012	NQR0022-002X	FERRITE BEADS		
K1013	NQR0022-002X	FERRITE BEADS		
K1014	NQR0022-002X	FERRITE BEADS		
K1015	NQR0022-002X	FERRITE BEADS		

⚠ Symbol No.	Part No.	Part Name	Description	Local
K1016	NQR0022-002X	FERRITE BEADS		
K1019	NQR0022-005X	FERRITE BEADS		
K1020	NQR0022-005X	FERRITE BEADS		
K1021	NQR0022-002X	FERRITE BEADS		
K1022	NQR0022-005X	FERRITE BEADS		
K1023	NQR0022-002X	FERRITE BEADS		
K1024	NQR0022-002X	FERRITE BEADS		
K1025	NQR0022-002X	FERRITE BEADS		
K1026	NQR0022-002X	FERRITE BEADS		
K1027	NQR0022-002X	FERRITE BEADS		
K1029	NQR0022-002X	FERRITE BEADS		
K1030	NQR0022-002X	FERRITE BEADS		
K1404	NQR0564-001X	FERRITE BEADS		
K1406	NQR0564-001X	FERRITE BEADS		
K1701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1801	NQR0564-001X	FERRITE BEADS		
K1803	NQR0564-001X	FERRITE BEADS		
K2101	NQR0022-002X	FERRITE BEADS		
K2102	NQR0022-002X	FERRITE BEADS		
K2103	NQR0022-002X	FERRITE BEADS		
K2104	NQR0022-002X	FERRITE BEADS		
K2105	NQR0022-002X	FERRITE BEADS		
K2106	NQR0022-002X	FERRITE BEADS		
K2107	NQR0022-002X	FERRITE BEADS		
K2108	NQR0022-002X	FERRITE BEADS		
K2109	NQR0022-002X	FERRITE BEADS		
K2110	NQR0022-002X	FERRITE BEADS		
K2111	NQR0022-002X	FERRITE BEADS		
K2112	NQR0022-002X	FERRITE BEADS		
K2113	NQR0022-002X	FERRITE BEADS		
K2114	NQR0022-002X	FERRITE BEADS		
K2115	NQR0022-002X	FERRITE BEADS		
K2116	NQR0022-002X	FERRITE BEADS		
K2117	NQR0022-002X	FERRITE BEADS		
K2118	NQR0022-002X	FERRITE BEADS		
K2119	NQR0022-002X	FERRITE BEADS		
K2120	NQR0022-002X	FERRITE BEADS		
K2121	NQR0022-002X	FERRITE BEADS		
K2201	NQR0022-002X	FERRITE BEADS		
K2202	NQR0022-002X	FERRITE BEADS		
K2203	NQR0022-002X	FERRITE BEADS		
K2204	NQR0022-002X	FERRITE BEADS		
K2205	NQR0022-002X	FERRITE BEADS		
K2206	NQR0022-002X	FERRITE BEADS		
K2207	NQR0022-002X	FERRITE BEADS		
K2208	NQR0022-002X	FERRITE BEADS		
K2209	NQR0022-002X	FERRITE BEADS		
K2210	NQR0022-002X	FERRITE BEADS		
K2211	NQR0022-002X	FERRITE BEADS		
K2212	NQR0022-002X	FERRITE BEADS		
K2213	NQR0022-002X	FERRITE BEADS		
K2214	NQR0022-002X	FERRITE BEADS		
K2215	NQR0022-002X	FERRITE BEADS		
K2216	NQR0022-002X	FERRITE BEADS		
K2217	NQR0022-002X	FERRITE BEADS		
K2218	NQR0022-002X	FERRITE BEADS		
K2219	NQR0022-002X	FERRITE BEADS		
K2220	NQR0022-002X	FERRITE BEADS		
K2221	NQR0022-002X	FERRITE BEADS		
LC1401	NQR0512-008X	EMI FILTER		
LC1402	NQR0512-008X	EMI FILTER		
LC1403	NQR0512-008X	EMI FILTER		
X1301	NAX0733-001X	CRYSTAL	14.31818MHz	
X1402	NAX0768-001X	CRYSTAL	13.5MHz	
X1801	NAX0666-001X	CRYSTAL	24.576000MHz	

Loading Motor board

Block No. [5][5]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A2	LOADING MOTOR BOARD ASSY		

RGB_YC Converter board

Block No. [6][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10291-01B	RGB_YC CONVERTER BOARD ASSY		
IC4401	BH7236AF-X	IC		
IC4402	MM1503XN-X	IC		
IC4403	74HC4538D-X	IC		
IC4404	BA7666FS-X	IC		
D4401	RB717F-X	SB DIODE		
C4401	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4404	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4405	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4406	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4408	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4409	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4410	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4412	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4413	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4418	NDC21HJ-103X	C CAPACITOR	0.01uF 50V J	
C4419	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C4420	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4422	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4423	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4424	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
R4401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4402	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4403	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4404	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4405	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4411	NRSA63D-204X	MG RESISTOR	200kΩ 1/16W D	
R4412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4413	NRSA63D-753X	MG RESISTOR	75kΩ 1/16W D	
R4414	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R4415	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4416	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4417	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4418	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CN4402	QGG2502K1-12	CONNECTOR	(1-12)	
OT1	LP40425-001A	BRACKET(PWB)		

Secam board

Block No. [8][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10011-03A	SECAM BOARD ASSY		EF
IC301	LA7358-E	IC		EF
Q301	2SB1218A/QR/-X	TRANSISTOR		EF
Q301 or	2SA1576A/QR/-X	TRANSISTOR		EF
Q301 or	2PA1576/R/-X	TRANSISTOR		EF
Q302	UN511E-X	DIGI TRANSISTOR		EF
Q302 or	DTA144WUA-X	DIGI TRANSISTOR		EF
Q302 or	PDTA144WU-X	DIGI TRANSISTOR		EF
C301	NDC21HJ-151X	C CAPACITOR	150pF 50V J	EF
C302	QEKC1HM-225Z	E CAPACITOR	2.2uF 50V M	EF
C303	NCB21HK-682X	C CAPACITOR	6800pF 50V K	EF

⚠ Symbol No.	Part No.	Part Name	Description	Local
C304	NCB21HK-682X	C CAPACITOR	6800pF 50V K	EF
C305	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	EF
C307	NDC21HJ-151X	C CAPACITOR	150pF 50V J	EF
C308	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	EF
C309	NCB21EK-104X	C CAPACITOR	0.1uF 25V K	EF
C310	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	EF
C311	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	EF
C312	NCB21HK-102X	C CAPACITOR	1000pF 50V K	EF
C313	QEKC1HM-474Z	E CAPACITOR	0.47uF 50V M	EF
C314	NDC21HJ-471X	C CAPACITOR	470pF 50V J	EF
C315	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	EF
C316	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	EF
C317	NCB21HK-681X	C CAPACITOR	680pF 50V K	EF
C318	NCB21EK-223X	C CAPACITOR	0.022uF 25V K	EF
C319	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	EF
C320	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	EF
C321	NDC21HG-301X	C CAPACITOR	300pF 50V G	EF
C322	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	EF
C323	QEKC0JM-476Z	E CAPACITOR	47uF 6.3V M	EF
R301	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	EF
R302	NRSA02J-124X	MG RESISTOR	120kΩ 1/10W J	EF
R303	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	EF
R304	NRSA02J-682X	MG RESISTOR	6.8kΩ 1/10W J	EF
R305	NRSA02J-473X	MG RESISTOR	47kΩ 1/10W J	EF
R306	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	EF
R307	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	EF
R308	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	EF
R309	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	EF
R310	NRSA02J-223X	MG RESISTOR	22kΩ 1/10W J	EF
R311	NRSA02J-392X	MG RESISTOR	3.9kΩ 1/10W J	EF
R312	NRSA02J-272X	MG RESISTOR	2.7kΩ 1/10W J	EF
R313	NRSA02J-223X	MG RESISTOR	22kΩ 1/10W J	EF
R314	QRE141J-243Y	C RESISTOR	24kΩ 1/4W J	EF
R315	QRE141J-564Y	C RESISTOR	560kΩ 1/4W J	EF
R316	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	EF
R329	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	EF
L301	QQL29BJ-100Z	P COIL	10uH J	EF
L302	QQL29BJ-6R8Z	P COIL	6.8uH J	EF
L303	QQL071J-270Y	COIL	27uH J	EF
CN301	QGG2502K1-11	CONNECTOR	(1-11)	EF
W311	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	EF
W312	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	EF
W314	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	EF
W315	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	EF
OT1	LP40425-001A	BRACKET(PWB)		EF

Junction board

Block No. [9][2]

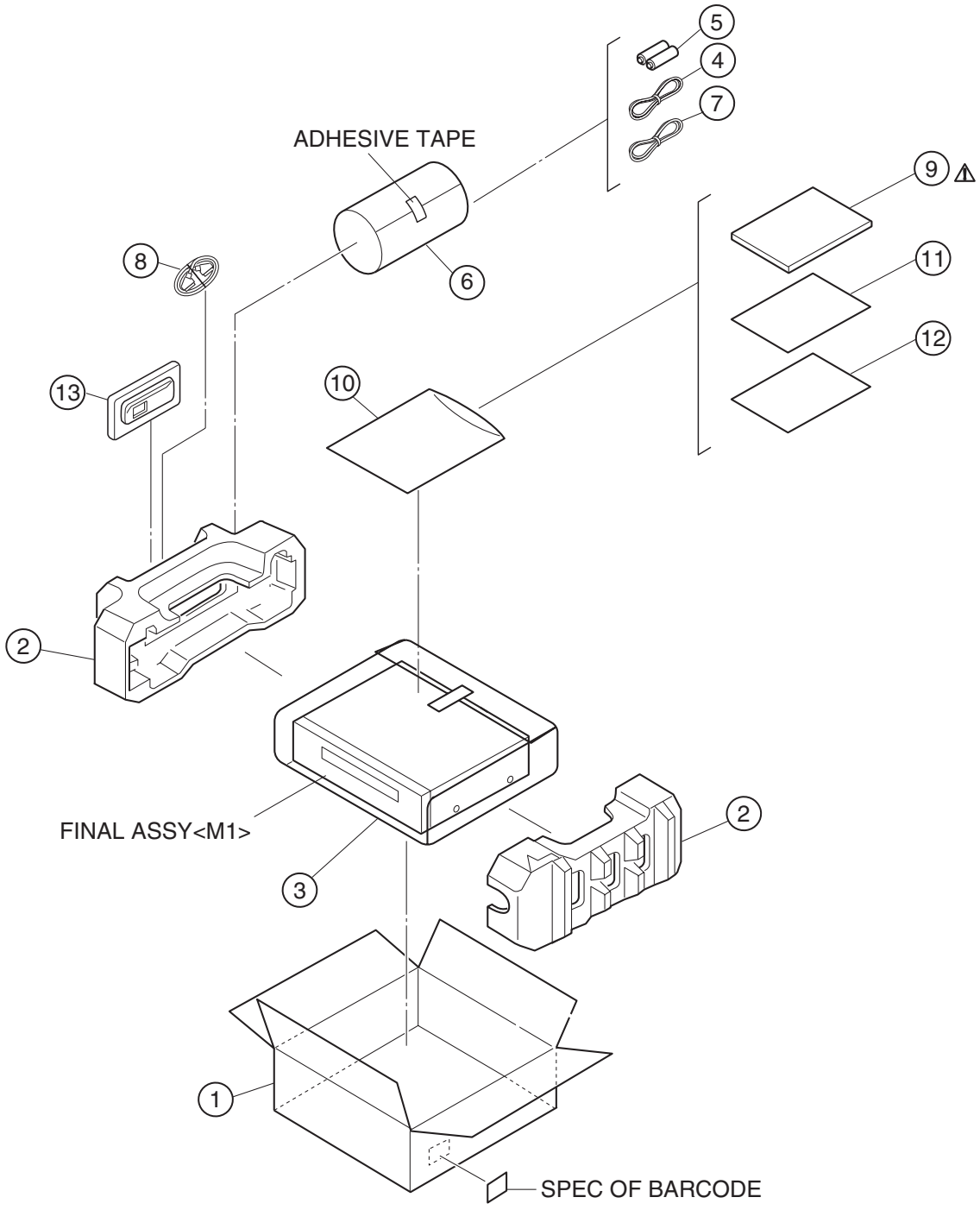
⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10298-03B2	JUNCTION BOARD ASSY		
IC5502	MM1689BH-X	IC		
IC5503	MM1665AH-X	IC		
IC8001	RC4558D-X	IC		
IC8001 or	BA15218F-XE	IC		
IC8002	AK5357ET-X	IC		
IC8002 or	AK5357VT-X	IC		
IC8201	RC4558D-X	IC		
IC8201 or	BA15218F-XE	IC		
IC8202	AK4385ET-X	IC		
IC8202 or	AK4385VT-X	IC		
Q5501	2SD601A/QRS/-X	TRANSISTOR		
Q5501 or	2SC2412K/QRS/-X	TRANSISTOR		
Q5501 or	2SC3928A/QRS/-X	TRANSISTOR		
Q5502	UN2111-X	TRANSISTOR		
Q5502 or	DTA114EKA-X	DIGI TRANSISTOR		
Q5502 or	RT1P141C-X	DIGI TRANSISTOR		
Q5503	UN2211-X	TRANSISTOR		
Q5503 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5503 or	RT1N141C-X	DIGI TRANSISTOR		
Q5504	2SC3576-JVC-T	TRANSISTOR		
Q5504 or	2SD2144S/VW/-T	TRANSISTOR		
Q5505	UN2113-X	TRANSISTOR		
Q5505 or	DTA144EKA-X	DIGI TRANSISTOR		
Q5505 or	RT1P441C-X	DIGI TRANSISTOR		
Q5508	2SA1585S/QR/-T	TRANSISTOR		
Q5509	UN2211-X	TRANSISTOR		
Q5509 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5509 or	RT1N141C-X	DIGI TRANSISTOR		
Q7151	UN221E-X	TRANSTSTOR		
Q7151 or	DTC144WKA-X	DIGI TRANSISTOR		
Q7151 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8001	2SC2412K/QRS/-X	TRANSISTOR		
Q8001 or	2SD601A/QRS/-X	TRANSISTOR		
Q8001 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8002	2SC2412K/QRS/-X	TRANSISTOR		
Q8002 or	2SD601A/QRS/-X	TRANSISTOR		
Q8002 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8003	DTC144WKA-X	DIGI TRANSISTOR		
Q8003 or	UN221E-X	TRANSTSTOR		
Q8003 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8004	DTC144WKA-X	DIGI TRANSISTOR		
Q8004 or	UN221E-X	TRANSTSTOR		
Q8004 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8005	DTA144WKA-X	TRANSISTOR		
Q8005 or	UN211E-X	DIGI TRANSISTOR		
Q8005 or	RT1P44HC-X	DIGI TRANSISTOR		
D5501	MTZJ7.5B-T2	Z DIODE		
D5503	MTZJ27D-T2	Z DIODE		
D5510	1S4-T2	SB DIODE		
D5513	1A3G-T2	SI DIODE		
D5513 or	10EDB20-T2	SI DIODE		
D5513 or	1G3-T2	SI DIODE		
D5514	MTZJ22D-T2	Z DIODE		
D8001	1SS133-T2	SI DIODE		
D8001 or	1SS270A-T2	SI DIODE		
C5504	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5505	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5506	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5507	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5508	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C5509	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5511	QEZ0654-477Z	E CAPACITOR	470uF 10V M	
C5515	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5520	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5522	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C5524	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C5526	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5533	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C8001	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8003	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8007	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8009	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8010	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8011	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8013	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8014	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8015	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8051	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8052	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8054	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8056	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8057	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8201	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8202	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8203	NCB31HK-471X	C CAPACITOR	470pF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C8204	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8205	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8206	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8207	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8208	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8209	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8210	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8231	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8232	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R5501	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R5502	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R5503	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5504	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5505	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5507	NRSA63F-683X	MG RESISTOR	68kΩ 1/16W F	
R5508	NRSA63F-393X	MG RESISTOR	39kΩ 1/16W F	
R5509	NRSA63F-393X	MG RESISTOR	39kΩ 1/16W F	
R5510	NRSA63F-333X	MG RESISTOR	33kΩ 1/16W F	
R5511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5512	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
R5513	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
⚠ R5516	QRZ9051-680X	FUSI RESISTOR	68Ω 0.25W J	
R7147	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7148	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7149	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7150	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7151	NRSA63J-200X	MG RESISTOR	20Ω 1/16W J	
R7152	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7162	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8009	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8010	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8011	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8013	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8014	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8015	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8016	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8018	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R8019	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R8021	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8051	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8203	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8204	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8205	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8206	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8207	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8209	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8210	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R8211	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8212	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8213	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8214	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8215	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8216	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8219	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8220	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8221	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8222	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R8231	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8232	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8233	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L8001	QQL29BJ-220Z	P COIL	22uH J	
L8002	QQL29BJ-220Z	P COIL	22uH J	
B5504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN5501	QGF1208C1-19	CONNECTOR	FROM REG	
CN5504	QGA2501C1-04	CONNECTOR	TO HDD	
CN7102	QGB1231M1-19	CONNECTOR	SYS 1-19	
CN7104	QGF1207C1-04	CONNECTOR	VIDEO SW	
CN7107	QGF1207C1-13	CONNECTOR	V-OUT 7-19	
CN7108	QGB1231M1-15	CONNECTOR	DIGITAL	
CN7109	QGB1231M1-15	CONNECTOR	DIGITAL	
CN7110	QGF1040C1-19	CONNECTOR	DIGITAL	EF
CN7125	QGF1207C1-04	CONNECTOR	JIG	
CN8001	QGB1231M1-11	CONNECTOR	AUDIO	
⚠ CP5501	QMFZ053-2R0Z-J1	FUSE	2A	
ET1	QNZ0136-001Z	EARTH PLATE		
ET2	QNZ0136-001Z	EARTH PLATE		
K7101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K8202	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

Packing materials and accessories parts list

Block No.M3MM



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LP31540-009A	PACKING CASE		E
1	LP31540-011A	PACKING CASE		EF
1	LP31540-010A	PACKING CASE		EK
2	LP31555-001A	CUSHION ASSY		
3	PQM30021-105	POLY BAG		
4	QAM0525-002	RF CABLE		
5	----------	BATTERY	R6TYPE(x2)	
6	QPC02202230P	POLY BAG	22cm x 22cm	
7	QAL0805-001	LED CABLE ASSY		
8	QAM0502-002	PERI CABLE		
⚠ 9	LPT1072-001A	INST BOOK	(ENGLISH)	E
⚠ 9	LPT1072-002A	INST BOOK	(GERMANY)	E
⚠ 9	LPT1072-003A	INST BOOK	(FRENCH)	E
⚠ 9	LPT1072-004A	INST BOOK	(DUTCH)	E
⚠ 9	LPT1072-005A	INST BOOK	(SPANISH)	E
⚠ 9	LPT1072-006A	INST BOOK	(ITALIAN)	E
⚠ 9	LPT1072-007A	INST BOOK	(DANISH)	E
⚠ 9	LPT1072-008A	INST BOOK	(FINNISH)	E
⚠ 9	LPT1072-009A	INST BOOK	(SWEDISH)	E
⚠ 9	LPT1072-010A	INST BOOK	(NORWEGIAN)	E
⚠ 9	LPT1072-011A	INST BOOK	(PORTUGUESE)	E
⚠ 9	LPT1072-012A	INST BOOK	(CZECH)	E
⚠ 9	LPT1072-013A	INST BOOK	(POLISH)	E
⚠ 9	LPT1072-014A	INST BOOK	(HUNGARIAN)	E
⚠ 9	LPT1074-001A	INST BOOK	(FRENCH)	EF
⚠ 9	LPT1073-001A	INST BOOK	(ENGLISH)	EK
10	QPC02503530P	POLY BAG	INST	
11	LYT0194-001B	Q.CARD		EK
12	----------	WARRANTY CARD	BT-54027-1	
13	RM-SDR052E	REMOCON UNIT		